



Form GSOP 1-PIN (04/98)

STATE OF CALIFORNIA
Department of General Services - Office of Procurement

PURCHASE ORDER

Page 1

Purchase Order No. Rev. Date
62196 6/30/2008

| | | | | |
|---|--|---|--------------------------|---------------|
| Supplier No. 798322 | Solicitation No. 56704 | Delivery Date 270 Days ARO | FOB Point Destination | Invoice Terms |
| S DEPT OF TRANSPORTATION h CALTRANS SHOPS T (AS SPECIFIED) i o p | | C CALTRANS-ACCTG/OPC B-15 h D32 EQUIPMENT SERVICE CTR a PO BOX 160048 T SACRAMENTO, CA 95816 r o g e | | |
| Attn: EQUIPMENT RECEIVING | | | | |
| Agency Billing 60063 | Agency Purchase Estimate 32-12-5312 | Purchase Estimate 66993 | Revision 0 | |
| Agency Contact STANLEY JACOBS | | Phone 916-227-9710 | Date Received | |

PAPE' MACHINERY, INC.
2850 EL CENTRO ROAD
SACRAMENTO, CA 95833
Attn: DAVID CONGER

Phone: 916-922-7181

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension |
|---|----------|------|-----------------|-----------------------|--------------|------------|
| <p>The General Provisions for Non-IT Commodities are hereby incorporated by reference. These General Provisions can be obtained by phoning (916) 375-4400 or by accessing our website at:</p> <p>http://www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pd</p> <p>The following information is provided for agency use only:</p> <p>Small Business: NS Fiscal Year: 2007/2008</p> | | | | | | |
| 1 | 1 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) | 108,359.0000 | 108,359.00 |
| <p>Four-Wheel, Articulated Steer, Four-Wheel Drive Loader in accordance with:</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008.</p> <p><u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008.</p> <p><u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> | | | | | | |

Sales and/or use tax to be extra unless noted above

| | | |
|--|-----------------------|------------|
| Buyer <i>Jim Mores</i> JIM MORES | Phone 916-375-4468 | BOC Number |
|--|-----------------------|------------|

Department of General Services - Office of Procurement

Form GSOP 2-PIN (04/98)

| | | | | |
|---------------------------|-----------------|-------------|---------------------|-----------------------|
| <i>Purchase Order No.</i> | <i>Revision</i> | <i>Date</i> | <i>Supplier No.</i> | <i>Supplier Name</i> |
| 62196 | | 6/30/2008 | 798322 | PAPE' MACHINERY, INC. |

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | |
|---|---------------|---------------------|-----------------|-----------------------|--------------|------------|---------------------|---------------|---------------------|-------|---------|------------|
| <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_41846-028-071 of one (1) page dated January 14, 2008.</p> <p>The following options shall be included for this line item:</p> <p>Option 14: Auto-Lube Option 15: Tires, Snow Tread Option 16: Heated Mirrors</p> <p>Training is required at the "Ship To" location as specified.</p> <p>Ship To: Caltrans Shop 21 1650 Albee Street Eureka, CA 95501</p> <table><tr><td><u>Maint. Class</u></td><td><u>ID No.</u></td><td><u>EBR No./Shop</u></td></tr><tr><td>41846</td><td>7004238</td><td>7004238/21</td></tr></table> <p>Brand: <u>JOHN DEERE</u> Model: <u>444K</u></p> | | | | | | | <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | 41846 | 7004238 | 7004238/21 |
| <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | | | | | | | | | | |
| 41846 | 7004238 | 7004238/21 | | | | | | | | | | |
| 2 | 1 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) | 128,757.0000 | 128,757.00 | | | | | | |
| <p>Four-Wheel, Articulated Steer, Four-Wheel Drive Loader in accordance with:</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008.</p> <p><u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008.</p> <p><u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> | | | | | | | | | | | | |

Department of General Services - Office of Procurement

Form GSOP 2-PIN (04/98)

Page 3

| | | | | |
|---------------------------|-----------------|-------------|---------------------|-----------------------|
| <i>Purchase Order No.</i> | <i>Revision</i> | <i>Date</i> | <i>Supplier No.</i> | <i>Supplier Name</i> |
| 62196 | | 6/30/2008 | 798322 | PAPE' MACHINERY, INC. |

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | |
|---|---------------|---------------------|-----------------|-----------------------|--------------|------------|---------------------|---------------|---------------------|-------|---------|------------|
| <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_ 41846-028-071 of one (1) page dated January 14, 2008.</p> <p>The following options shall be included for this line item:</p> <p>Option 5: Tool Carrier Linkage Option 6: Engine Preheaterd Option 7: Multipurpose Bucket Option 8: Quick Coupler Option 10: Tires, Rock Grip Option 11: Loading Forks Option 14: Auto-Lube Option 16: Heated Mirrors</p> <p>Training is required at the "Ship To" location as specified.</p> <p>Ship To: Caltrans Shop 23 981 North Beale Road Marysville, CA 95901</p> <table><tr><td><u>Maint. Class</u></td><td><u>ID No.</u></td><td><u>FBR No./Shop</u></td></tr><tr><td>41846</td><td>7003100</td><td>7003100/23</td></tr></table> <p>Brand: <u>JOHN DEERE</u> Model: <u>444K</u></p> | | | | | | | <u>Maint. Class</u> | <u>ID No.</u> | <u>FBR No./Shop</u> | 41846 | 7003100 | 7003100/23 |
| <u>Maint. Class</u> | <u>ID No.</u> | <u>FBR No./Shop</u> | | | | | | | | | | |
| 41846 | 7003100 | 7003100/23 | | | | | | | | | | |
| 3 | 1 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) | 128,159.0000 | 128,159.00 | | | | | | |
| <p>Four-Wheel, Articulated Steer, Four-Wheel Drive Loader in accordance with:</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008.</p> | | | | | | | | | | | | |

Department of General Services - Office of Procurement

Form GSOP 2-PIN (04/98)

Page 4

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | |
|--|---------------|---------------------|-----------------|-----------------------|--------------|------------|---------------------|---------------|---------------------|-------|---------|------------|
| <u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008. | | | | | | | | | | | | |
| <u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_ 41846-028-071 of one (1) page dated January 14, 2008. | | | | | | | | | | | | |
| The following options shall be included for this line item: | | | | | | | | | | | | |
| Option 5: Tool Carrier Linkage Option 6: Engine Preheaterd Option 7: Multipurpose Bucket Option 8: Quick Coupler Option 10: Tires, Rock Grip Option 11: Loading Forks Option 14: Auto-Lube | | | | | | | | | | | | |
| Training is required at the "Ship To" location as specified. | | | | | | | | | | | | |
| Ship To: Caltrans Shop 23 981 North Beale Road Marysville, CA 95901 | | | | | | | | | | | | |
| <table><tr><td><u>Maint. Class</u></td><td><u>ID No.</u></td><td><u>EBR No./Shop</u></td></tr><tr><td>41846</td><td>7003101</td><td>7003101/23</td></tr></table> | | | | | | | <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | 41846 | 7003101 | 7003101/23 |
| <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | | | | | | | | | | |
| 41846 | 7003101 | 7003101/23 | | | | | | | | | | |
| Brand: <u>JOHN DEERE</u> Model: <u>444K</u> | | | | | | | | | | | | |
| 4 | 1 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) | 128,296.0000 | 128,296.00 | | | | | | |
| Four-Wheel, Articulated Steer, Four-Wheel Drive Loader in accordance with: | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008. | | | | | | | | | | | | |

Department of General Services - Office of Procurement

Page 5

Form GSOP.2-PIN (04/98)

| | | | | |
|---------------------------|-----------------|-------------|---------------------|-----------------------|
| <i>Purchase Order No.</i> | <i>Revision</i> | <i>Date</i> | <i>Supplier No.</i> | <i>Supplier Name</i> |
| 62196 | | 6/30/2008 | 798322 | PAPE' MACHINERY, INC. |

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | |
|---------------------|---------------|---------------------|-----------------|--|---------------------|---------------|---------------------|-------|---------|------------|--|--|
| | | | | <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008.</p> <p><u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008.</p> <p><u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_ 41846-028-071 of one (1) page dated January 14, 2008.</p> <p>The following options shall be included for this line item:</p> <p>Option 5: Tool Carrier Linkage Option 6: Engine Preheaterd Option 7: Multipurpose Bucket Option 8: Quick Coupler Option 14: Auto-Lube Option 15: Tires, Snow Tread Option 16: Heated Mirrors</p> <p>Training is required at the "Ship To" location as specified.</p> <p>Ship To: Caltrans Shop 23 981 North Beale Road Marysville, CA 95901</p> <table><tr><td><u>Maint. Class</u></td><td><u>ID No.</u></td><td><u>EBR No./Shop</u></td></tr><tr><td>41846</td><td>7004506</td><td>7004506/23</td></tr></table> <p>Brand: <u>JOHN DEERE</u> Model: <u>444K</u></p> | <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | 41846 | 7004506 | 7004506/23 | | |
| <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | | | | | | | | | | |
| 41846 | 7004506 | 7004506/23 | | | | | | | | | | |
| 5 | 2 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) | 128,871.0000 | 257,742.00 | | | | | | |
| | | | | <p>Four-wheel, Articulated Steer, Four-wheel Drive Loader in accordance with:</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14, 2008.</p> | | | | | | | | |

Department of General Services - Office of Procurement

Page 6

Form GSOP 2-PIN (04/98)

| | | | | |
|---------------------------|-----------------|-------------|---------------------|-----------------------|
| <i>Purchase Order No.</i> | <i>Revision</i> | <i>Date</i> | <i>Supplier No.</i> | <i>Supplier Name</i> |
| 62196 | | 6/30/2008 | 798322 | PAPE' MACHINERY, INC. |

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | | | | |
|--|----------|--------------|-----------------|-----------------------|--------------|------------|--------------|--------|--------------|-------|---------|------------|-------|---------|------------|
| <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008.</p> <p><u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008.</p> <p><u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_ 41846-028-071 of one (1) page dated January 14, 2008.</p> <p>The following options shall be included for this line item:</p> <p>Option 6: Engine Preheaterd Option 7: Multipurpose Bucket Option 8: Quick Coupler Option 9: Snow Plow Option 14: Auto-Lube Option 15: Tires, Snow Tread Option 16: Heated Mirrors</p> <p>Training is required at the "Ship To" location as specified.</p> <p>Ship To: Caltrans Shop 23 981 North Beale Road Marysville, CA 95901</p> <table><tr><th>Maint. Class</th><th>ID No.</th><th>EBR No./Shop</th></tr><tr><td>41846</td><td>7004507</td><td>7004507/23</td></tr><tr><td>41846</td><td>7005098</td><td>7005098/23</td></tr></table> <p>Brand: <u>JOHN DEERE</u> Model: <u>444K</u></p> | | | | | | | Maint. Class | ID No. | EBR No./Shop | 41846 | 7004507 | 7004507/23 | 41846 | 7005098 | 7005098/23 |
| Maint. Class | ID No. | EBR No./Shop | | | | | | | | | | | | | |
| 41846 | 7004507 | 7004507/23 | | | | | | | | | | | | | |
| 41846 | 7005098 | 7005098/23 | | | | | | | | | | | | | |
| 6 | 1 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) | 126,182.0000 | 126,182.00 | | | | | | | | | |
| <p>Four-wheel, Articulated Steer, Four-wheel Drive Loader in accordance with:</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008.</p> | | | | | | | | | | | | | | | |

Department of General Services - Office of Procurement

Form GSOP 2-PIN (04/98)

Page 7

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | |
|--|----------|--------------|-----------------|---|--------------|------------|--------------|--------|--------------|-------|---------|------------|
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008. | | | | | | | | | | | | |
| <u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_41846-028-071 of one (1) page dated January 14, 2008. | | | | | | | | | | | | |
| The following options shall be included for this line item: | | | | | | | | | | | | |
| Option 7: Multipurpose Bucket | | | | | | | | | | | | |
| Option 8: Quick Coupler | | | | | | | | | | | | |
| Option 10: Tires, Rock Grip | | | | | | | | | | | | |
| Option 11: Loading Forks | | | | | | | | | | | | |
| Option 14: Auto-Lube | | | | | | | | | | | | |
| Training is required at the "Ship To" location as specified. | | | | | | | | | | | | |
| Ship To: Caltrans Shop 27 5421 Vineland Avenue North Hollywood, CA 91601 | | | | | | | | | | | | |
| <table><tr><td>Maint. Class</td><td>ID No.</td><td>EBR No./Shop</td></tr><tr><td>41846</td><td>7003298</td><td>7003298/27</td></tr></table> | | | | | | | Maint. Class | ID No. | EBR No./Shop | 41846 | 7003298 | 7003298/27 |
| Maint. Class | ID No. | EBR No./Shop | | | | | | | | | | |
| 41846 | 7003298 | 7003298/27 | | | | | | | | | | |
| 7 | 1 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) Four-Wheel, Articulated Steer, Four-Wheel Drive Loader in accordance with: | 134,200.0000 | 134,200.00 | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14, 2008. | | | | | | | | | | | | |

Department of General Services - Office of Procurement

Form GSOP 2-PIN (04/98)

Page 8

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | |
|---------------------|---------------|---------------------|-----------------|--|---------------------|---------------|---------------------|-------|---------|------------|--|--|
| | | | | <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008. | | | | | | | | |
| | | | | <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008. | | | | | | | | |
| | | | | <u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008. | | | | | | | | |
| | | | | <u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008. | | | | | | | | |
| | | | | <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_41846-028-071 of one (1) page dated January 14, 2008. | | | | | | | | |
| | | | | The following options shall be included for this line item: Option 5: Tool Carrier Lingage Option 6: Engine Preheater Option 8: Quick Coupler Option 11: Loading Forks Option 14: Auto-Lube Option 15: Tires, Snow Tread Option 16: Heated Mirrors Option 17: Light Material Bucket | | | | | | | | |
| | | | | Training is required at the "Ship To" location as specified. Ship To: Caltrans Shop 29 11 Jay Street Bishop, CA 93514 | | | | | | | | |
| | | | | <table><tr><td><u>Maint. Class</u></td><td><u>ID No.</u></td><td><u>EBR No./Shop</u></td></tr><tr><td>41846</td><td>7003154</td><td>7003154/29</td></tr></table> Brand: <u>JOHN DEERE</u> Model: <u>444K</u> | <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | 41846 | 7003154 | 7003154/29 | | |
| <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | | | | | | | | | | |
| 41846 | 7003154 | 7003154/29 | | | | | | | | | | |
| 8 | 1 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) Four-wheel, Articulated Steer, Four-wheel Drive Loader in accordance with: <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008. <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008. | 123,317.0000 | 123,317.00 | | | | | | |

STATE OF CALIFORNIA

Department of General Services - Office of Procurement

PURCHASE ORDER CONTINUATION

Form GSOP 2-PIN (04/98)

Page 9

| Purchase Order No. | Revision | Date | Supplier No. | Supplier Name |
|--------------------|----------|-----------|--------------|-----------------------|
| 62196 | | 6/30/2008 | 798322 | PAPE' MACHINERY, INC. |

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | |
|--|---------------|---------------------|-----------------|--|--------------|------------|---------------------|---------------|---------------------|-------|---------|------------|
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008. | | | | | | | | | | | | |
| <u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008. | | | | | | | | | | | | |
| <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_41846-028-071 of one (1) page dated January 14, 2008. | | | | | | | | | | | | |
| The following options shall be included for this line item: | | | | | | | | | | | | |
| Option 5: Tool Carrier Lingage | | | | | | | | | | | | |
| Option 6: Engine Preheater | | | | | | | | | | | | |
| Option 8: Quick Coupler | | | | | | | | | | | | |
| Option 11: Loading Forks | | | | | | | | | | | | |
| Option 14: Auto-Lube | | | | | | | | | | | | |
| Training is required at the "Ship To" location as specified. | | | | | | | | | | | | |
| Ship To: Caltrans Shop 29 11 Jay Street Bishop, CA 93514 | | | | | | | | | | | | |
| <table><tr><td><u>Maint. Class</u></td><td><u>ID No.</u></td><td><u>EBR No./Shop</u></td></tr><tr><td>41846</td><td>7005019</td><td>7005019/29</td></tr></table> | | | | | | | <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | 41846 | 7005019 | 7005019/29 |
| <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | | | | | | | | | | |
| 41846 | 7005019 | 7005019/29 | | | | | | | | | | |
| Brand: <u>JOHN DEERE</u> | | | | | | | | | | | | |
| Model: <u>444K</u> | | | | | | | | | | | | |
| 9 | 1 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) Four-Wheel, Articulated Steer, Four-Wheel Drive Loader in accordance with: <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008. <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008. | 123,312.0000 | 123,312.00 | | | | | | |

Department of General Services - Office of Procurement

Form GSOP 2-PIN (04/98)

Page 10

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | |
|---|---------------|---------------------|-----------------|-----------------------|--------------|------------|---------------------|---------------|---------------------|-------|---------|------------|
| <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14,2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008.</p> <p><u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008.</p> <p><u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_41846-028-071 of one (1) page dated January 14, 2008.</p> <p>The following options shall be included for this line item:</p> <p>Option 5: Tool Carrier Linage Option 7: Multipurpose Bucket Option 8: Quick Coupler Option 10: Tires, Rock Grip Option 11: Loading Forks Option 16: Heated Mirrors</p> <p>Training is required at the "Ship To" location as specified.</p> <p>Ship To: Caltrans Shop 30 1603 South B Street Stockton, CA 95201</p> <table><tr><td><u>Maint. Class</u></td><td><u>ID No.</u></td><td><u>EBR No. Shop</u></td></tr><tr><td>41846</td><td>7003040</td><td>7003040/30</td></tr></table> <p>Brand: <u>JOHN DEERE</u> Model: <u>444K</u></p> | | | | | | | <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No. Shop</u> | 41846 | 7003040 | 7003040/30 |
| <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No. Shop</u> | | | | | | | | | | |
| 41846 | 7003040 | 7003040/30 | | | | | | | | | | |
| 10 | 1 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) | 127,932.0000 | 127,932.00 | | | | | | |
| <p>Four-Wheel, Articulated Steer, Four-Wheel Drive Loader in accordance with:</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008.</p> | | | | | | | | | | | | |

Department of General Services - Office of Procurement

Form GSOP 2-PIN (04/98)

Page 11

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | |
|--|---------------|---------------------|-----------------|-----------------------|--------------|------------|---------------------|---------------|---------------------|-------|---------|------------|
| <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008.</p> <p><u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008.</p> <p><u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_41846-028-071 of one (1) page dated January 14, 2008.</p> <p>The following options shall be included for this line item:</p> <p>Option 5: Tool Carrier Lingage Option 7: Multipurpose Bucket Option 8: Quick Coupler Option 10: Tires, Rock Grip Option 11: Loading Forks Option 14: Auto-Lube</p> <p>Training is required at the "Ship To" location as specified.</p> <p>Ship To: Caltrans Shop 31 7179 Opportunity Road San Diego, CA 92111</p> <table><tr><td><u>Maint. Class</u></td><td><u>ID No.</u></td><td><u>EPR No./Shop</u></td></tr><tr><td>41846</td><td>7003612</td><td>7003612/31</td></tr></table> <p>Brand: <u>JOHN DEERE</u> Model: <u>544K</u></p> | | | | | | | <u>Maint. Class</u> | <u>ID No.</u> | <u>EPR No./Shop</u> | 41846 | 7003612 | 7003612/31 |
| <u>Maint. Class</u> | <u>ID No.</u> | <u>EPR No./Shop</u> | | | | | | | | | | |
| 41846 | 7003612 | 7003612/31 | | | | | | | | | | |
| 11 | 1 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) | 112,070.0000 | 112,070.00 | | | | | | |
| <p>Four-Wheel, Articulated Steer, Four-Wheel Drive Loader in accordance with:</p> | | | | | | | | | | | | |

Department of General Services - Office of Procurement

Form GSOP 2-PIN (04/98)

Page 12

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | |
|---------------------|---------------|--------------------|-----------------|---|---------------------|---------------|--------------------|-------|---------|------------|--|--|
| | | | | <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008.</p> <p><u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008.</p> <p><u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008.</p> <p><u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_41846-028-071 of one (1) page dated January 14, 2008.</p> <p>The following options shall be included for this line item:</p> <p>Option 7: Multipurpose Bucket Option 14: Auto-Lube</p> <p>Training is required at the "Ship To" location as specified.</p> <p>Ship To: Caltrans Shop 31 7179 Opportunity Road San Diego, CA 92111</p> <table><tr><td><u>Maint. Class</u></td><td><u>ID No.</u></td><td><u>EBR No./hop</u></td></tr><tr><td>41846</td><td>7004558</td><td>7004558/31</td></tr></table> <p>Brand: <u>JOHN DEERE</u> Model: <u>444K</u></p> | <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./hop</u> | 41846 | 7004558 | 7004558/31 | | |
| <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./hop</u> | | | | | | | | | | |
| 41846 | 7004558 | 7004558/31 | | | | | | | | | | |
| 12 | 1 | EA | 3805-380-0406-9 | LOADER (AS DESCRIBED) | 127,932.0000 | 127,932.00 | | | | | | |
| | | | | Four-Wheel, Articulated Steer, Four-Wheel Drive Loader in accordance with: | | | | | | | | |

Department of General Services - Office of Procurement

Form GSOP 2-PIN (04/98)

Page 13

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension | | | | | | |
|---------------------|---------------|---------------------|----------------|---|------------|-----------|---------------------|---------------|---------------------|-------|---------|------------|
| | | | | <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Specification #66993_41846-028-71 of twelve (12) pages dated January 14, 2008. | | | | | | | | |
| | | | | <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Administrative Procedures #66993_41846-028-071 of eight (8) pages dated January 14, 2008. | | | | | | | | |
| | | | | <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Options #66993_41846-028-071 of ten (10) pages dated January 14, 2008. | | | | | | | | |
| | | | | <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Questionnaire #66993_41846-028-071 of three (3) pages dated January 14, 2008. | | | | | | | | |
| | | | | <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> Loader Options Questionnaire #66993_41846-028-071 of five (5) pages dated January 14, 2008. | | | | | | | | |
| | | | | <u>CALTRANS IN-SHOP WARRANTY AGREEMENT</u> #66993_41846-028-071 of one (1) page dated January 14, 2008. | | | | | | | | |
| | | | | <u>EXTENDED WARRANTY AGREEMENT FORM</u> (Sample) Statewide warranty coordinator certification #66993_41846-028-071 of three (3) pages dated January 14, 2008. | | | | | | | | |
| | | | | <u>A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADER</u> AFTER PURCHASE ORDER AWARD CONTACT INFORMATION #66993_ 41846-028-071 of one (1) page dated January 14, 2008. | | | | | | | | |
| | | | | The following options shall be included for this line item: Option 5: Tool Carrier Linkage Option 7: Multipurpose Bucket Option 8: Quick Coupler Option 10: Tires, Rock Grip Option 11: Loading Forks Option 14: Auto-Lube Training is required at the "Ship To" location as specified. Ship To: Caltrans Shop 34 7179 Opportunity Road San Diego, CA 92111 | | | | | | | | |
| | | | | <table><tr><td><u>Maint. Class</u></td><td><u>ID No.</u></td><td><u>EBR No./Shop</u></td></tr><tr><td>41846</td><td>7003801</td><td>7003801/34</td></tr></table> Brand: <u>JOHN DEERE</u> Model: <u>444K</u> | | | <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | 41846 | 7003801 | 7003801/34 |
| <u>Maint. Class</u> | <u>ID No.</u> | <u>EBR No./Shop</u> | | | | | | | | | | |
| 41846 | 7003801 | 7003801/34 | | | | | | | | | | |

Department of General Services - Office of Procurement

Form GSOP 2-PIN (04/98)

Page 14 (Last)

| Item No. | Quantity | Unit | Commodity Code | Description | Unit Price | Extension |
|---|----------|------|----------------|-------------|------------|---------------------|
| <u>PO Miscellaneous Charges and Discounts</u> | | | | | | <u>Dollar Value</u> |
| BATCH ADJUSTMENT (CHARGE) | | | | | | 91.00 |
| <hr/> | | | | | | <hr/> |
| Total Value: | | | | | | 1,626,349.00 |
| <hr/> | | | | | | <hr/> |
| <p><u>F.O.B. Destination Requirement</u></p> <p>For the purpose of this award only F.O.B. destination will be accepted.</p> <p><u>California Tire Fee Act</u></p> <p>A fee of \$1.75 per tire is added to the purchase order to cover the costs imposed by the California Tire Fee Act (California Public Resources Code Section 42885 et. seq.).</p> <p>The one time recycle fee of \$1.75 per tire, for fiftytwo (52) tires totaling \$91.00 is included in this purchase order.</p> <p><u>Purchase Order Award</u></p> <p>This purchase order is being awarded on September 23, 2008 pursuant to Government Code Section 13332.17. Any encumbrances made pursuant to this purchase order shall be construed to have been made on the last day of the preceding fiscal year.</p> <p><u>Change Orders</u></p> <p>This Purchase Order may be amended, modified, or terminated at any time by mutual agreement of the parties, in writing. Change orders amending, modifying or terminating the Purchase Order, including any modifications of the compensation payable, may be issued only by the State Procurement Officer. All such change orders shall be in writing and issued only upon written concurrence of the supplier. Termination, as that term is used in this section, does not include termination for default of the supplier.</p> <p>This purchase order had been registered into the State Contract and Procurement Registration System (SCPRS) (https://www.scprs.dgs.ca.gov/). The registration number is: 26600908334157</p> | | | | | | |

**STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
DIVISION OF EQUIPMENT**

| ITEM NO | UNIT | CAB | TRANS | ENG | CAP | C.A. | F.A. | R.A. |
|---------|------|------|-------|-------|--------|------|------|------|
| 41846 | U | ENC. | T.C. | D-110 | 1.5 YD | | | |

SPECIFICATION NUMBER: 41846-028-071

SPECIFICATION FOR: A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL
DRIVE LOADER

PURCHASE ESTIMATE NUMBER: 32-12-5312

The unit shall comply with Caltrans Equipment Quality Standards for Electrical, Welding, and Paint and Coatings as defined at: <http://www.dot.ca.gov/hq/eqsc/qualstand.htm>.

The intent of this specification is to describe the minimum requirements for a rubber tire, articulated steer, four-wheel drive loader equipped with a minimum 1.5 cubic yard struck capacity bucket. These specifications are written in accordance with SAE J1057, J731, J732, and J742 standards referencing identification terminology, component nomenclature, and specification definitions for loaders.

In addition to typical loading applications, the loader may be subjected to and shall be capable of road travel at continuous maximum vehicle speed at ambient temperatures of 110° F. The loader shall be equipped with maximum cooling capacity to handle such roading distances under extreme ambient heats.

Unless otherwise stated in the purchase order, the requirements of these specifications shall have precedence over the completed questions; and the completed questions shall have precedence over standard factory specifications or literature.

TECHNICAL SPECIFICATIONS

1. **WEIGHT:** The SAE operating weight of the base unit with standard equipment, general purpose 1.5 cubic yard struck bucket, fully enclosed ROPS cab, and specified tires, less optional counterweights, shall not be less than 19,000-lbs.
2. **DIMENSIONS:** The following vehicle dimensions are given to insure proper vehicle configuration, use, transport, and storage. All dimensional requirements shall be applicable to the loader equipped with: (1) the specified tires and wheels outlined in Section 10 of this specification when inflated to the tire manufacturer's recommended pressure for loader applications, (2) the specified bucket outlined in section 13 of this specification when resting on the ground and level.
 - a. Overall Vehicle Length: 25.0 ft. (max.)
 - b. Overall Vehicle Width (without bucket): 8.0 ft. (max.)
 - c. Vehicle height to top of cab: 10.75 Ft (max.)
 - d. Wheelbase: 8.5 ft. (min.)
 - e. Ground Clearance (with lift arms raised): 14.0 in. (min.)

3. ENGINE: The engine shall be a turbo-charged, intercooled, diesel engine with a SAE J1349 net brake power rating of not less than 110 (HP) and maximum torque rating of not less than 300 lb.-ft. The engine shall be meet Tier III emissions standards and shall be listed on a current Air Resources Board Executive Order for the "Engine Family" supplied (emission credits will not be accepted). A copy of the current Air Resources Board Executive Order shall be supplied. The engine shall have a minimum of four cylinders and provide a minimum 274 cubic inches (4.5 liter) of piston displacement. The turbo-charged engine shall maintain the manufacturer's specified power and torque ratings to a minimum of 10,000 feet above sea level. The engine shall be equipped with, but not limited to, the following accessories:
- a. Governor: A variable speed engine governor, factory set to the engine manufacturer's recommended RPM for loader applications.
 - b. Engine hood and side panels with locking capability.
 - c. Electric Start and shutoff key type.
 - d. Hydraulic driven reversible fan.

The loader shall be equipped with, but not limited to, the following engine monitoring instrumentation:

- e. Engine oil pressure gauge and low oil pressure indicator
- f. Engine coolant temperature gauge
- g. Transmission oil temperature gauge

The loader may be equipped with an electronic monitor and alarm system in lieu of the previously mentioned analog gauges (items d - h). If an electronic monitor and alarm system is supplied, the electronic monitor system shall monitor, as a minimum, the following engine and equipment conditions:

- h. Engine oil pressure
- i. Engine coolant temperature
- j. Transmission oil temperature
- k. Transmission oil pressure
- l. Alternator voltage
- m. Hydraulic oil filter

Note: An engine coolant temperature gauge or display must be provided whether or not the loader is equipped with an electronic monitor system. : If both a gauge and an electronic monitoring system are provided only one type of indicator is required. Duplicate monitoring is not mandatory.

The loader shall also be equipped with visual and auditory warning devices to alert the operator of conditions critical to engine and equipment operation. These warning lights and sounding devices shall have their own source for actuation, rather than being dependent on another instrument (e.g., Murphy gauge). Warning lights shall be bright enough to stand out during all

operating conditions and audible signals shall be distinguishable from the operating noises of the vehicle.

Critical engine and equipment operation conditions for which visual and auditory warning devices are required shall include, but not be limited to, the following:

- n. Low engine oil pressure
- o. High engine coolant temperature
- p. Transmission oil temperature

NOTE: A gauge is not an acceptable visual warning device unless it is accompanied by a red light which illuminates or flashes upon reaching a critical engine condition.

In addition to all of the above, the loader shall also be equipped with the following engine monitoring instrumentation:

- q. Fuel level gauge
- r. Engine hour meter, electronic - solid state (Ref. Hobbs model 23651-3 or comparable)

All engine monitoring instrumentation and warning devices shall be permanently labeled to identify their functions with a simple and readable lettering style or equivalent international symbols.

4. AIR AND OIL FILTRATION: The engine air filtration system shall be a 2-stage unit consisting of a centrifugal precleaner stage and two replaceable, dry element type, final stage filters. The centrifuging action precleaner shall be capable of removing coarse dust and moisture. The air cleaner assembly shall also be equipped with a dust and water evacuator. The two replaceable dry element type, final stage filters shall consist of an outer primary filter and an inner safety element of the correct capacity as indicated in the engine manufacturer's published instructions.

The air cleaner system shall have an air restriction gauge; mounted to be easily viewable during pre-op inspections the gauge shall be marked to indicate maximum restriction in accordance with the engine manufacturers published instructions. The restriction gauge shall maintain the last highest vacuum reading when the engine is turned off and shall be capable of resetting to zero (Ref., Filter Minder Dash Mount Graduated Air Filter Indicator or comparable). The air cleaner/gauge connections shall be dust proof and waterproof, either tubing or hose mounted, as to withstand abrasion, wear, and vibration. The gauge suction line shall incorporate an in-line filter to protect against dust intake due to a cracked or broken connection.

The engine oil, transmission and hydraulic oil filtration systems shall utilize replaceable, spin-on type filters of the correct capacity as indicated in the manufacturer's published instructions.

5. EXHAUST SYSTEM: The exhaust system shall utilize a vertical exhaust stack equipped with a rain cap. A rain cap may not be required if the exhaust system is equipped with an exhaust stack and muffler constructed to inhibit air from spinning the turbocharger while the loader is

being towed. The muffler shall expel rainwater without the engine running. An elbow, without a muffler, does not restrict wind and will not be acceptable. The exhaust system shall comply with applicable California Vehicle Code and State fire regulations.

6. TRANSMISSION: The transmission shall utilize a torque converter type drive and manual gear selection with full power shift characteristics with control for high and low range or a hydrostatic transmissions with variable speed settings in the low range. The transmission shall not have less than four (4) speeds forward and three (3) speeds reverse or be continuously variable. The transmission shall have neutral locking capability that - in the event the transmission is engaged - will prevent the engine from starting or prevent the machine from moving if the engine is started. The loader shall be capable of continuous maximum forward speed (20-mph, minimum) in the high range.

7. AXLES AND DRIVES: The loader shall be equipped with four-wheel drive. The drive to each axle shall be through a differential. Both axles shall be either locking or limited slip.

The rear axle shall be capable of oscillating, from its horizontal centerline, a minimum of 10° in either direction (up or down) for a total rear axle oscillation of not less than 20°.

8. STEERING: The loader shall employ vehicle articulation as a means of steering. Vehicle steering shall be controlled through a steering wheel with hydraulic power assist or full hydraulic steering. The loader shall articulate a minimum of 40° in either direction for a total articulation angle of not less than 80°.

An emergency (auxiliary) steering system shall be provided to allow the operator to continue maintaining steering control in the event of an engine or steering power source failure. Emergency steering capability shall be provided without requiring a supplementary operator control function (e.g., turning a switch, pulling a knob, etc.). An emergency steering system utilizing hydraulic accumulator(s) as the emergency power source will not be acceptable. The emergency steering system shall meet the performance requirements as established by SAE J1511 Recommended Practice - "Minimum Performance Criteria for Emergency Steering of Earthmoving Construction Machines".

The steering system shall be equipped with an articulated steering frame lock to prevent accidental machine articulation during shipment or maintenance. The articulated steering frame lock shall conform to the requirements as established by SAE J276 Standard - "Steering Frame Lock for Articulated Loaders and Tractors"

9. RIDE CONTROL: An operator controlled or preset speed dependent ride control system may be activated/deactivated by operator from the cab. When switched on ride control allows the lift cylinder(s) to be cushioned by an accumulator to reduce fore and aft pitching of the loader while roading. Ride control shall activate/deactivate according to factory set speeds. A dash-mounted indicator shall be illuminated when the ride control is engaged. Only manufacturer supplied and installed systems will be accepted. After market installations **shall not** be acceptable.

10. BRAKES: The service brakes shall be power-assisted or power-actuated and installed to apply braking force on all four wheels. The service brakes shall be foot-operated. Power-assisted

hydraulic brakes may be equipped with a vacuum, air, or hydraulic type booster system. A power-actuated braking system may be either air or hydraulically actuated.

The service brakes shall be self-adjusting, sealed and immersed in oil to protect against the influence of dust, mud, sand or water (e.g., wet-disk brakes). Service brakes shall have a sealed brake wear indicator with an external port to allow disc brake wear without disassembling the axle.

A service braking system utilizing stored energy shall be equipped with a dash mounted gauge and a warning device which actuates before system energy drops below 50% of the manufacturers specified maximum operating energy level. The warning device shall be readily visible and audible to the operator, and provide continuous warning. A gauge is not an acceptable visual warning device.

An emergency (secondary) braking system shall be installed to allow the operator to stop the machine in the event of any single failure in the service braking system. The emergency system shall be capable of being applied by a person seated in the operator's seat. In addition to the manual control, the emergency stopping system may also be applied automatically. If an automatic emergency stopping system is used, the automatic application shall occur only after a warning device is actuated.

Hydraulically boosted or hydraulically actuated braking systems shall incorporate an emergency hydraulic power-braking source (e.g., auxiliary pump) that is automatically activated in the event of an engine failure. Hydraulic accumulators in compliance with SAE J3450 - Braking Performance requirements will be an acceptable emergency braking power source.

A parking brake shall be installed and may be connected to the service brakes or operated independently on the drive shaft or transmission output shaft. A red warning light shall be installed on the instrument panel, in full view of the operator, to indicate when the parking brake is applied while the engine is running.

The service brakes, emergency brakes, and parking brake shall conform with the braking performance requirements as established by SAE J3450 Standard - "Braking Performance - Rubber-Tired Earthmoving Machines".

11. TIRES AND WHEELS: The loader shall be equipped with Michelin XTLA, 17.5R-25, tires on all wheels. The rim width shall not be less than 14 inches and all rims shall be the same size. The tires shall *NOT* be filled with liquid ballast. All four tires and wheels shall mount to the axles with a minimum 3.0-inch side and 4.0 inch circumference tire clearance to allow for the installation and use of tire chains. All dimensional requirements shall be applicable to the loader equipped with specified tires, wheels and fenders when inflated to the tire manufacturer's recommended pressure for loader applications.
12. ELECTRICAL SYSTEM: The loader shall be equipped with the following minimum electrical components:

- a. Two multiple beam front driving lights (halogen)
- b. Two front work lights (halogen)
- c. Two rear work lights (halogen)
- d. Backup Lights
- e. Rear tail and stop lights
- f. Front and rear mounted turn signals
- g. License plate lamp with bracket
- h. Cab dome light
- i. Electronic backup alarm
- j. Horn
- k. Rotator Beacon mounted on a collapsible base, (Required Federal Signal, MFR Part No. 443112-02)

Minimum electrical equipment shall comply with all Federal and State regulations. The tail, stop, and directional signal lamps may be in combination. The wires to these lamps shall be in a loom, conduit, or wrapped with electrical tape. Adequate size gauge of wire to the lights shall be used in accordance with SAE standards for distance from power source and load demand. Wiring color code for lights shall comply with SAE standard J560(b). The ends of all stranded conductors cut shall be mechanically stripped and fitted with insulated type terminals. The terminals shall be mechanically crimped securely with appropriate tool(s). All splices shall be sealed against moisture. Scotch Lock wire-type piercing devices shall not be used.

In addition to the mentioned lighting system, the unit shall be equipped with side and rear reflectors or reflector tape in accordance with FMVSS 108 for "straight trucks".

The battery system shall be made up of not less than two (2) heavy duty, Group 31, sealed 12-volt batteries (Ref. Delco's Heavy Duty "freedom" 1110 series, Champion's Heavy Duty PC series, or comparable). Each battery shall be not less than 700 CCA (cold cranking amps) at 0° F. and a reserve capacity of not less than 160 minutes at 25 amps and 80° F. The battery system ratings shall be as established by the BCI (Battery Council International) and SAE. Side terminal batteries are not acceptable.

The electrical lighting system may be 12 V. or a 24 V system for starting and operating the engine and equipment may be supplied if necessary.

The loader electrical system shall provide a 12 V 20 Amp re-settable circuit breaker for a two-way mobile communication radio. The loader electrical system shall be shielded from any harmful interference that may be caused by the use of a two-way mobile communication radio operating at a radio frequency of either 47 MHz or 800 MHz. Caltrans will install the two-way communication radio.

A minimum 90 amp alternator with a matching regulator shall be furnished with a 12-volt operating system. A minimum 45 amp alternator with a matching regulator shall be furnished with a 24-volt operating system.

13. BUCKET ASSEMBLY: The bucket shall be a general purpose type bucket with a SAE J742 rated struck capacity of not less than 1.5 cubic yards. The bucket width shall exceed the overall width of the loader equipped with the specified 17.5R-25, 12PR, L-2 type tires, but shall not exceed 8.5 feet. The bucket shall be furnished with pre-drilled blade holes in accordance with the attached State of California Drawing, H1-C003-01. The Department of Transportation will supply the bucket cutting edge.
14. LOADER CAPACITY: The loader shall be furnished with hydraulic lift and hydraulic tilt capability. The loader shall provide dumping capability at any desired height within its range. The loader shall meet or exceed the following SAE dimensional and operational requirements:
- a. Dump Height @ maximum lift and 45° dump angle: 104 in. (clearance)
 - b. Reach - Fully Raised @ 45° dump angle: 34 in.
 - c. Full Turn Tipping Load: 13,000 lb.
 - d. Straight Tipping Load: 15,000 lb.
 - e. Breakout Force: 20,000 lb.
 - f. Operating Load: 6,500 lb.

NOTE: The loader may be equipped with rear counterweights. Maximum total weight for all counter weights shall be 1,500 lbs. Liquid wheel ballasts such as calcium chloride will not be acceptable. The loader shall meet all of the above capacities in accordance with SAEJ732 with a minimum 2.0 yd³ struck capacity, general purpose; pin on bucket as shown on the manufacture's published literature.

The loader shall be furnished with a lift arm support device to prevent accidental lowering of the lift arms when in the elevated position for maintenance and servicing purposes. The support device shall conform to the requirements as established by ISO-10533 Standard - "Lift Arm Support Device for Loaders".

15. OPERATOR'S COMPARTMENT: The operator's compartment shall be fully enclosed and equipped with safety glass windows and key type locking. The cab shall be constructed to afford the operator visibility throughout the entire operation. The cab shall be mounted on the rear (engine end) of the loader to help counterbalance the loads imposed on the front bucket.

The cab shall be equipped with a fully adjustable (fore and aft), fully padded, suspension seat with backrest and seat belt. The cab shall also be equipped with a recirculating type heater with front and rear window defrosters or defogger fans doors and a factory installed refrigerated air-conditioning integral with the heating unit as described in Section 16. The cab shall be furnished with a sun visor and front and rear exterior windshield wipers and washers which can be independently operated via interior switches.

In addition to the fully enclosed cab, the operator shall be protected by a Rollover Protective Structure (ROPS) in accordance with the State of California, Division of Industrial Safety, Construction Safety Orders, Title 8, Section 1596. A combination cab and safety guard approved by the Division of Industrial Safety will be acceptable. In general, the cab shall provide maximum operator protection and comfort.

16. AIR CONDITIONER: An air-conditioning system shall be installed with adequate capacity to reduce the operator environment temperature to a maximum of 80° F with a maximum ambient temperature of 110° F. The air-conditioning system should not allow the operator environment humidity to exceed 70%.

In addition to the air conditioner, the cab shall also be fully sealed and equipped with a pressurization and filtration system to prevent dust and other airborne particles from entering the cab.

17. CONTROLS: Placement of hand and foot operator controls shall be conveniently located as to provide the operator maximum comfort during operation. Controls which influence the movement of the machine and the operational direction of equipment shall conform to the requirements as established by SAE J297 Standard - "Operator Controls on Industrial Equipment".

Controls to lift the bucket shall be equipped with a float position. The lift circuit control valve shall incorporate an automatic kick-out at full lift height and an accumulator for automatic ride Control. The tilt control circuit shall be equipped with a "return-to-dig" positioning device and an automatic leveling device.

18. MISCELLANEOUS: Miscellaneous components to be supplied and installed shall include, but not be limited to, the following:

- a. Vandal protection package: The loader shall provide protection from theft and vandalism. Vandal protection shall include the operator's compartment, engine compartment, battery compartment, and all fluid fill ports. If necessary, the loader shall be equipped with transmission side guards to protect the transmission and related components from vandalism. At least two sets of keys shall be provided for all keyed locking doors and compartments.
- b. Rear Drawbar: The loader shall be equipped with a standard, clevis type drawbar permanently fixed to the rear of the machine.
- c. Mirrors: The loader shall be equipped with both a right and left exterior west coast style or factory standard rear view mirror not less than 6 inches wide by 16 inches high each.
- d. Fenders: The loader shall be equipped with front and rear wheel fenders. Fenders shall be of adequate size and configuration to protect the windows from road spray with the specified tires and wheels.
- e. Tie-downs: The loader shall be provided with factory installed tie-downs at or near each of the outside Four Corners of the machine. Tie-downs shall be frame mounted; "D" ring type, compatible for use with 1/2 inch welded chain. Tie-downs shall have a minimum 3-inch inside diameter. The tie-downs shall be appropriately secured to and located on the loader frame to provide adequate holding strength during trailer transport of the machine.
- f. Interior rearview mirror shall be factory standard not less than 10 inches wide by 4 inches high. The mirror shall be securely mounted inside the cab; glued on mirrors will not be acceptable.

19. HYDRAULICS: All hydraulic lines shall be sized as recommended by the manufacturer of the component to which they attach, and shall be adequate for the use intended. All hoses and plumbing shall have a minimum number of bends and shall be free of any kinks. All bends in hoses and tubing shall be not less than the minimum radius as recommend by the hose or tubing manufacturer. Any hoses routed around or through areas that may cause abrasions or cuts shall be protected as necessary. All hydraulic components and plumbing shall be mounted and supported to withstand extensive field use.

Any tubing or flexible hose used in the hydraulic system shall be approved for hydraulic use and rated for the maximum working pressure of the system. Large-diameter hose shall be used for low-pressure return line(s) to the reservoir. The use of black pipe, galvanized pipe, brass or plastic pipe or fittings, etc. **shall not** be allowed in the hydraulic system, including the low pressure return side. Only steel or stainless steel crimp type hose fittings and ends which are approved for hydraulic use shall be used (Aeroquip or comparable.)

Hydraulic fittings on high pressure lines shall be the swivel type or stainless steel, and shall be 37degrees JIC, SAE "O" Ring Boss, or SAE "O" Ring Flange. Fittings shall be of the proper size to match the hydraulic line to which they attach. No welding of fittings will be allowed. Compression type fittings shall not be used in the system.

NOTE: Thread types shall not be mixed on the unit (i.e. thread types shall be all American or all Metric), NPT fittings may be used adjacent to the hydraulic reservoir only.

The hydraulic system shall incorporate a replaceable element, spin-on type filter(s) with filtering capability of 25 microns or less. The hydraulic pump that operates the equipment shall be of sufficient capacity to safely permit the simultaneous operation of at least two controls. The hydraulic system shall incorporate a manufacturer supplied and installed air to hydraulic fluid cooler and have a minimum of four (4) manufacture's supplied and installed circuits, each circuit shall be plumbed with metal tubing to the bucket end of the linkage. At least one circuit shall have a positive detent to allow the control lever to be locked at a minimum continuous flow of 35-gpm +/- 2 gpm. The system shall have a minimum capacity of 35 gpm at 3000 psi. Only manufacturer's factory supplied and installed circuits will be accepted. Couplers shall be dripless quick couplers.

20. PAINT: The basic unit, the primary finish surfaces of any optional equipment, and other minor or incidental component parts shall be finish painted with lead-free **(300 PPM LEAD MAX)** standard factory color(s). The finish coat shall be free from runs, drips, sags, etc., and shall be evenly applied to provide a gloss finish. The finish or top coat shall be compatible for re-coat or touch-up with lead-free DuPont Imron 5000, polyurethane enamel; PPG Delta DUHS; or, Sherwin Williams Genesis, equivalent color. All paint and primer shall be lead free.
21. WELDING: All welding shall comply with the requirements as represented in American Welding Society (AWS), D14.3-82, and American National Standard entitled "Specification for Welding Earthmoving and Construction Equipment."

All welds shall be continuous except as noted. Intermittent or spot welds shall be spaced and

proportioned to provide ample strength for the material being welded. Weld sizes not indicated shall be equal to the thickness of the least of the joined plates.

All welds shall be properly fused, displaying proper penetration and a professional finish, and must meet the qualification requirements of applicable AWS specifications. Examples of unacceptable weldments are:

- | | | | |
|----|----------|----|--------------------|
| a. | Cracks | d. | Excessive Splatter |
| b. | Undercut | e. | Blow Holes |
| c. | Overlap | f. | Slag Entrapment |

Any weld failing to comply with the AWS specification or failing to pass a quality assurance inspection performed by the State, will be corrected by the manufacturer, at their expense, and be corrected off State property. The State shall determine if a weld is acceptable or deficient.

Any deficient weld shall be corrected by a welder who is certified in accordance with the requirements as established by the American Welding Society (AWS). The welder shall have the proper certification documents indicating that he/she is qualified to perform the type, size, and position of the weld performed, with the welding process utilized, and on the material being welded. The supplier will be required to supply proof of current welding certifications for personnel performing any re-welding on the unit, upon request of the State whether written or verbal.

GRINDING OF WELDS must have prior approval of the Department of Transportation, Division of Equipment, Engineering Specifications. Welds which have been ground without approval shall be subject to complete re-welding upon request, at no additional cost to the State.

All assembly dimensions and tolerances on drawings apply after welding. Excessive warpage of assembled parts is not acceptable. Weld symbols on drawings shall be interpreted per American National Standard Welding Symbols. In the event of the lack of a weld symbol, the best commercial practice shall prevail. The covering of welds with body fillers or similar materials is unacceptable.

22. **NOISE**: Noise emitted by each unit delivered in compliance with these specifications shall comply with all California and Federal laws or regulations pertaining to maximum allowable emission of noise both inside and outside the operator's cab. In no event shall the noise level shall exceed 75 dB (A) inside the cab as measured according to SAE J2105 "Measurement of Noise Emitted by Earthmoving Machinery at the Operator's Position -- Simulated Work Cycle Test Conditions" and 90-dB (A) outside the cab according to SAE J2104 "Measurement of Exterior Noise Emitted by Earthmoving Machinery--Dynamic Test Conditions".

The sound level reading will be taken with the equipment unit stationary after the unit has been warmed up for 15 minutes. The reading will be taken with the engine operating at full governed RPM and as applicable, with a man in the cab and the meter near center of cab within twelve inches from the operator's ear. All non-propulsion operating controls may be randomly actuated throughout the test.

23. VEHICLE REGISTRATION DOCUMENTS REQUIRED: The original dealer's "Report of Sale" shall be furnished by all California licensed dealers at the time of delivery of each unit or units covered by these specifications.

A "Manufacturer's Statement of Origin" and original "Bill of Sale" on the vendor's letterhead may be supplied for each unit in lieu of a dealer's Report of Sale, if the supplier is not a registered California dealer.

An original weight certificate from a California Weigh Master for registration purposes must be supplied at the time of delivery of each unit.

A Federal Excise Tax Exempt Certificate will be attached to the purchase order.

All documentation supplied for registration shall contain the following:

State of California
Department of Transportation/Equipment
34th Street and Stockton Boulevard
P. O. Box 160048
Sacramento, CA 95816

All required documentation shall be sent to the above address by the time of delivery.

NOTE: The State shall register/license all vehicles with the Department of Motor Vehicles.

24. WORKMANSHIP: The equipment and any accessories shall be a product of good workmanship and shall be free from any defects that will affect their appearance or serviceability.
25. SAFETY: The entire unit and accessories shall comply with the applicable provisions of the California Vehicle Code, the Safety Orders of the Division of Industrial Relations, and all Federal regulations in effect at the time of manufacture. The loader shall be equipped with a removable, rear mounted "Slow Moving Vehicle" identification emblem in accordance with the California Vehicle Code, Division 12, Chapter 2, Article 3, Section 24615.
26. LUBRICATION: The equipment shall be certified by the manufacturer for use with re-refined lubrication products. The re-refined lubrication products used by the State will meet or exceed all SAE, API, and NLGI specifications as required by the manufacturer.

Lubrication products used in each unit shall be compatible for top-off and refill with one of the following State contracted lubrication products:

- a. SAE 15W-40 motor oil.
- b. Dexron-III or Mercon automatic transmission fluid.
- c. Tractor hydraulic fluid.
- d. SAE 50 motor oil.
- e. SAE 85W-140 gear lube.
- f. NLGI #2 multipurpose grease.
- g. DOT 3 brake fluid.

For information regarding State contracted lubrication products, contact:

California Department of Transportation
Division of Equipment
PO Box 160048
Sacramento, CA 95816-0048
ATTN: Lubrication Coordinator, Ph: 916-227-9646

27. BOOKS AND MANUALS: One (1) set of standard operator's manual, complete lubrication instructions, parts books and shop repair manuals (complete with electrical and hydraulic schematics) shall be supplied with each unit. On receipt of the first unit(s), one (1) additional set of manuals shall be supplied for State files.

**STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
DIVISION OF EQUIPMENT**

| ITEM NO | UNIT | CAB | TRANS | ENG | CAP | C.A. | F.A. | R.A. |
|---------|------|------|-------|-------|--------|------|------|------|
| 41846 | U | ENC. | T.C. | D-110 | 1.5 YD | | | |

SPECIFICATION NUMBER: 41846-028-071

SPECIFICATION FOR: A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL
DRIVE LOADER

PURCHASE ESTIMATE NUMBER: 32-12-5312

ADMINISTRATIVE PROCEDURES

1. **WARRANTY:** The unit(s), including but not limited to the chassis, engine, drive train, electrical system and all modifications made to the unit prior to delivery, etc., shall be covered (parts and labor) under a factory authorized extended warranty for three (3) years or **2000** engine hours, whichever occurs first, following the date the Department of Transportation (Caltrans) puts the unit into service. This warranty does not cover standard wear items, which fail due to normal wear. Caltrans will notify the supplier by mail of the in-service date and keep a record of the in-service date.

A copy of this extended warranty shall be authorized and signed by the manufacturer's Statewide warranty coordinator. This person shall not be the supplier or dealer for the supplier. Any other coordinator shall only be acceptable with written permission prior to the bid opening. A copy of this certificate shall be supplied with each unit delivered. This certificate shall include the following:

- Telephone number of the manufacturer's statewide warranty coordinator.
- A list of at least five- (5) factory authorized warranty service locations throughout California.
- The warranty performance requirements and late delivery requirements detailed below shall be stated in this certificate.

NOTE: A warranty service location shall have a physical shop building capable of housing at least 2 units, a staff of at least 3 mechanics trained on this equipment and at least one mobile service truck. At least 2 locations must be in Northern California and at least 2 must be in Southern California.

If the supplier is not the manufacturer or manufacturer's authorized representative, then a performance bond for in the amount of 70% of this order shall be supplied to cover late delivery charges detailed below. A statement agreeing to the warranty conditions stated herein shall be signed by the supplier and submitted with proof of bondability with the bid.

The performance bond shall be submitted prior to Purchase Order award. The balance of any unused portion of the bond will be relinquished at the end of the 3-year in service period.

Late delivery charges shall be assigned as shown for OEM parts and warranty repair services that do not meet the following performance requirements:

- a. All OEM parts not available within three (3) working days from the date of order.
 - The price shall be reduced 20% for every day after the three (3) working days have passed from the initial parts order. This does not apply to those parts listed as for Caltrans only.
 - Additionally, if parts are not available by the sixth (6) working day, a loaner unit, of equal or greater capacity, shall be made available for use by Caltrans until the parts have been delivered. Supplying a replacement unit will stop the 20% parts discount from the day the unit is made available. This does not apply to those parts listed as for Caltrans only.
- b. Warranty repair service not performed within 5 working days of entering the shop.
 - If repairs have not been made by the sixth (6) working day, a loaner unit, of equal or greater capacity, shall be made available for use by Caltrans until the parts have been delivered.
- c. Warranty replacement of engine, transmission or complete axle assemblies not performed within 15 working days of entering the shop.
 - If repairs have not been made by the sixteenth (16) working day, a loaner unit, of equal or greater capacity, shall be made available for use by Caltrans until the parts have been delivered.

NOTE: All parts expediting fees required to maintain these performance levels shall be covered by the extended warranty and not charged to Caltrans.

NOTE: For those suppliers providing a bond in lieu of a factory authorized warranty, the bond shall be charged for those penalties incurred as detailed above.

The supplier may use a traveling mechanic to perform the warranty work. The supplier will be responsible for all associated costs (travel time, overtime, per diem, etc.). The use and availability of a traveling mechanic does not relieve the supplier from providing a list of five (5) factory authorized warranty service locations throughout California.

At the request of the Caltrans shop superintendent, a joint warranty inspection of the equipment shall be conducted within 30 days prior to the expiration of the warranty period with the vendor or his authorized designee. The purpose shall be to resolve any remaining warranty issues prior to expiration.

An In-Shop Warranty agreement (see attached), signed by the supplier or manufacturer, shall be submitted prior to Purchase Order award. The standard In-Shop Warranty agreement shall be extended from one (1) year to three (3) years per this agreement.

Caltrans, at its option, may perform warranty work under the terms of the In-Shop Warranty agreement. If Caltrans opts not to perform the warranty work, the supplier shall pick up the unit within 48-hours of notification, written or verbal. The unit will be at a Caltrans facility. The unit shall be repaired and returned within 10 working days to the Caltrans facility where the unit was originally picked up. Upon prior approval with Caltrans and in compliance with all Caltrans Policies and Procedures, warranty work may be performed at a Caltrans facility.

Any supplier or manufacturer non-compliant with the warranty provisions set forth herein may be subject by the Procurement Division, Department of General Services, State of California to be removed from any future bidding.

Any non-integral accessory / optional equipment not cataloged as a dealer option shall be warranted for a period of one year commencing from the date Caltrans puts the unit into service (i.e. rotary broom)

2. TRAINING: When training is requested on the Invitation For Bid, the supplier, at his expense, shall provide a qualified factory authorized service representative (not a salesman) to provide training for operators, mechanics, and parts personnel. This training (not a sales presentation) shall consist of hands-on operation, safety, service and adjustments for the operators; mechanical repair and adjustment specifications for the shop and field mechanics; parts manual orientation, nomenclature and ordering procedures for parts personnel. It shall also cover lubrication and servicing using Division of Equipment lubrication products. This lubrication product information will be provided to the supplier by the Division of Equipment Lubrication and Research Branch at (916) 227-9646.

A training plan outline, containing at least all of the subjects listed above, shall be submitted for approval within 30 days after receipt of the order (ARO) to the Division of Equipment Training Coordinator at (916) 227-9665.

The training shall be provided at the Caltrans Equipment Shop(s) specified in the Invitation For Bid. This training shall be for one (1) 8-hour day (or longer as the supplier or State deems necessary), and the date(s) of the training will be arranged by the Division of Equipment Training Coordinator (916) 227-9665. Shops receiving numerous loaders may require several training sessions at separate locations. The full cost of this service shall be included in the bid. All training shall be accomplished within 45 days of acceptance and receipt of the unit at the shop indicated on the Invitation For Bid unless otherwise mutually agreed to between the supplier and the Division of Equipment Training Coordinator.

3. SERVICE REPRESENTATIVE: The supplier, at his expense, shall provide a qualified factory authorized service representative to be in attendance at the purchase order delivery site to make any necessary adjustments to the units and to give instructions to the equipment receiving inspectors to assure correct operation of the units supplied. The supplier shall supply the service representative for one (1) 8-hour day at the delivery destination. The cost for this service shall be included in the bid.
4. IN-PROCESS REVIEW: The unit(s) may require an in-process review to verify timely progress of construction of the unit(s) and to ascertain compliance with the intent of the specifications and drawings. If there are any questions regarding the intent of the specifications or drawings,

call the "Agency Contact" as indicated on the Purchase Order title page. Any in-process review will be at State expense conducted within the State of California only and will not constitute acceptance of the unit(s).

5. INSPECTION: This order will require a two (2) phase inspection process. For all inspections the unit(s) will be serviced, washed and ready for, as applicable, inspection or delivery. Inspections will begin within ten (10) working days from the date of the inspection request by the supplier. It is the supplier's responsibility to contact the Equipment Parts Coordinator at (916) 227-9636 for inspections.

FIRST PHASE (PRE-DELIVERY INSPECTION): In accordance with the State Administrative Manual, Section 4113 and the Caltrans inspection program, each unit will be inspected prior to shipment to the destination on the purchase order. This inspection trip(s) shall be State financed at no cost to the supplier.

Arrangements for pre-delivery inspections shall be made only when multiple units are complete. Each unit shall be identified with the applicable Purchase Order and Line Item. The vendor shall receive a copy of the inspection report within 4 working days of the inspection indicating that the first unit is either acceptable or not acceptable. Unacceptable or non-compliant items will be listed on the report. If late delivery charges accrue, the vendor will not be held responsible for those days from the request of the inspection to the receipt of the inspection report. If corrections are needed as a result of the inspection, the corrections shall be made prior to shipment to the purchase order destination. Authorization to deliver unit(s) must be granted by the Department of Transportation, Division of Equipment, Quality Assurance Section.

If additional interim inspections are required, such inspection trips shall be at the expense of the supplier at \$75.00 per hour (including travel time) and all expenses (meals, lodging, and cost of transportation). Travel expenses will be documented on State of California, Department of Transportation, Travel Expense Claim Form, FA302. These fees may be deducted from the invoice.

NOTE: The Pre-delivery Inspection for all units shall be conducted at a common location.

PRE-DELIVERY INSPECTION LOCATION: The inspections shall be conducted by the Department of Transportation, Division of Equipment, Quality Assurance. These inspections shall take place at an adequate site provided by the vendor within the State of California. The inspection site shall meet all of the following criteria:

- a. The site shall not be the Purchase Order delivery destination. The site shall be paved, secure and zoned for commercial use.
- b. The site shall include electricity, lights, water, compressed air and a secure paved lot. The facilities shall also include lift equipment adequate to raise the units and support them on safety stands with a minimum of 12 inches of tire clearance. The supplier shall provide conditions which meet the safety standards of CAL-OSHA and Title 8 of the California Code of Regulations.

- c. The adequacy of the site shall be determined by the Department of Transportation, Division of Equipment, Quality Assurance Section. Contact the Quality Assurance Chief at (916) 227-9709 for approval.
- d. If the facility is deemed unacceptable by the Department of Transportation, Division of Equipment, Quality Assurance Section, the vendor shall be billed for the inspection trip including wages and expenses. This cost shall be deducted from the purchase order payment.

SECOND PHASE (FINAL INSPECTION): Each unit will have a final inspection at its delivery destination shown on the Purchase Order to verify acceptability. The State will have five (5) working days after delivery of a unit to conduct the final inspection of said unit. Units delivered to the final Purchase Order destination will be accepted only when all Purchase Order requirements have been met, any shipping damages have been corrected, and all required documents are received by the Department of Transportation, Division of Equipment, Equipment Receiving. These documents include, as applicable, the invoice, vehicle registration documents, parts book, operator's manuals, service manuals, lubrication instructions and charts, warranty information, certifications, questionnaires, etc. Units which are not accepted by the delivery date on the Purchase Order will be considered delivered late.

If the supplier receives notice that the unit(s) is not acceptable, whether written or oral, the unit(s) shipped to the Purchase Order destination shall be removed within seven (7) calendar days. If the supplier fails to remove said unit(s) from the State's facilities within the specified period, the State may forward said unit(s) to the supplier by common carrier at the supplier's expense and risk.

6. OUT OF STATE TRAVEL: *If the supplier's inspection facility is not within the State of California, the bidder should include in the bid price all expenses as listed below for inspection trip(s) for two (2) persons as outlined in the inspection section of the specifications and as follows:*
- i. All travel expenses including air fare, ground transportation mileage, tolls, parking, etc. to and from the airport at the point of departure - Sacramento, California.
 - ii. Vehicle rental for transportation from the nearest airport to the supplier's place of manufacture where the inspections will take place for each workday at the supplier's designated inspection facility.
 - iii. Lodging, meals, per diem and incidentals for each full workday at the supplier's designated facility where the inspection(s) will be conducted.
 - iv. All references to "inspection trip(s) shall be State financed at no cost to the supplier" shall be superseded for the above mentioned expenses when out of state travel is required by the vendor.

The vendor shall receive a copy of the inspection report within 4 working days of the inspection. Unacceptable or non-compliant items will be listed on the report. If late delivery charges accrue, the vendor will not be held responsible for days in excess of the specified inspection report return period from the end of the inspection to the receipt of the inspection report.

If additional interim inspections are required, such inspection trips shall be at the expense of the supplier at \$75.00 per hour (including travel time) and all expenses (meals, lodging, and cost of transportation). These fees may be deducted from the invoice.

7. DELIVERY: Inspection, delivery, and final acceptance of all units on the Purchase Order shall be within 270 calendar days after the Purchase Order date. Contact the State of California, Department of Transportation, Division of Equipment, Equipment Parts Coordinator at (916) 227-9636 for delivery.

Failure of any units to comply with the specifications by the final delivery date may place the supplier in default and may be grounds for the State to invoke Paragraph 26 of the General Provisions, Rights and Remedies of the State for Default. The Department of General Services, Procurement Division will be notified at such time.

Acceptance of delivery or placement in operation of any equipment shall not release the manufacturer from liability for faulty design, workmanship, or materials appearing even after final payment have been made.

8. LATE DELIVERY CHARGES: The parties to this agreement acknowledge that the State shall incur actual damages should the supplier fail to perform the work as called out in the contract and specification on the dates set forth herein. The parties, therefore, have agreed to late delivery charges in the amount of \$75.00 per unit per workday.

Workdays are Monday through Friday inclusive, except State holidays observed Monday through Friday inclusive.

The parties also agree that the amount specified is not unreasonable nor punitive in nature because both parties have carefully considered the amount specified and believe it to be a reasonable estimate, and not excessive at the time the purchase order is entered into.

It is, therefore agreed, that the supplier will pay the State of California the sum of \$75.00 per unit per work day (as stated above) for each work day the work remains uncompleted or unaccepted by the State, provided the total late delivery charges assessed against supplier shall in no event exceed twenty-five percent (25%) of the total value of the entire order, and the supplier agrees to pay said damages as herein provided. In the event such damages are not paid, the supplier agrees that the State may deduct the amount thereof from any monies due or that may become due said supplier.

9. PAYMENT: Process for payment will be initiated on a weekly basis for minimum groups or blocks of five (5) units received and deemed acceptable. Discounts offered will start on each group or block of payment units as each group or block of payment units are received and deemed acceptable. The final payment will be for a minimum of five (5) units.
10. QUESTIONNAIRE: The attached questionnaire shall be filled out and will become a part of each bid submitted. Any portion of the questionnaire, which is not applicable to the equipment, shall be shown as N/A (not applicable). Failure to complete any part of the questionnaire shall result in rejection of the bid, except as noted.

Unless otherwise stated in the purchase order, the requirements of the written purchase order specification shall have precedence over the completed questionnaire; and the completed questionnaire shall have precedence over standard factory specifications or literature.

11. GENERAL: One (1) complete set of additional filters (air, oil, water, fuel, hydraulic, etc.) shall be supplied with the first unit delivered. This additional set of filters shall be as recommended by the manufacturer and shall be complete with the appropriate part numbers for identification.

Each unit and any accessory shall be delivered completely assembled and ready to operate.

No exceptions to the specifications will be allowed unless the exceptions are listed on the purchase order or subsequent addenda.

The component parts of the unit shall be new and of proper size and design to safely withstand the maximum stresses imposed.

The manufacturer's torque rating of each driven part shall be equal to or exceed the torque rating of its driving member.

All equipment and accessories cataloged as standard, unless superseded by these specifications, are to be furnished and included in purchase price of this unit.

Bids will be considered only on equipment represented by a supplier capable of providing adequate repair parts, warranty, technical assistance, and training in the United States as of the bid opening date. The supplier shall be capable of supplying repair parts to Caltrans within five (5) working days after a purchase order for parts is submitted to the supplier, whether by phone, fax, or mail. Bidders may be required to provide documentation supporting this requirement prior to award of the contract.

Suppliers shall be the equipment manufacturer, an authorized factory dealer or representative thereof, or shall have authorization from the equipment manufacturer or authorized factory dealer to solicit the equipment bid. The bidder shall be capable of providing parts, service, warranty, and training for the equipment bid as specified herein. If the bidder cannot provide these items for the equipment bid, the equipment manufacturer or an authorized factory dealer may provide these items for the bidder. Upon request, the signed agreement between the bidder and the equipment manufacturer or authorized factory dealer, stating who will be responsible for providing parts, service, warranty, and training for the equipment bid, shall be provided to the State.

Bids will not be considered if supplier's designated f.o.b. delivery destination is other than the delivery address stated in the invitation to bid.

Only new models in current production, which are cataloged by the manufacturer and for which manufacturer's published literature and printed specifications are currently available, will be considered. Special options may be included only when recommended by the manufacturer of the unit and approved by the State.

All equipment/options are to be factory installed. If the equipment/options are not available factory installed, dealer installed equipment/options may be acceptable. The bidder is to specify those items, which will be dealer installed.

The State reserves the right to purchase a minimum of one (1) additional unit, or up to an additional 30% of the quantity on the Purchase Order, at bid prices for State Agencies and California Local Government Agencies. Orders for such additional units shall be placed within 180 days of bid award date.

The State reserves the right to amend the contract up to 10% of the purchase order price to cover deficiencies or inconsistencies within or between the technical specifications and or drawings. These amendments shall cover the cost of any materials involved and or the standard shop labor rate for modification or installation.

**STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
DIVISION OF EQUIPMENT**

| ITEM NO | UNIT | CAB | TRANS | ENG | CAP | C.A. | F.A. | R.A. |
|---------|------|------|-------|-------|--------|------|------|------|
| 41846 | U | ENC. | T.C. | D-110 | 1.5 YD | | | |

SPECIFICATION NUMBER: 41846-028-071

SPECIFICATION FOR: A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL
DRIVE LOADER

PURCHASE ESTIMATE NUMBER: 32-12-5312

**OPTIONS
(RETURN OPTIONS PAGE WITH BID)**

The following options or accessories shall be furnished only when specified on the Invitation For Bid and Purchase Order. Price on options listed shall be per unit. If option is not available, list the price as NOT AVAILABLE (N.A.)

Include price for options (*if available*) even though option prices written below are "non-award" items.

1. **BOOM MOWER:** A hydraulic driven flail type boom mower shall be the manufacture's current production model with a minimum of (1) one year previous production. The mower shall be the manufacturer's heaviest duty model available. The vendor shall guarantee that a stock of component parts shall be available at a location convenient to the user; all items shall be of a standard production model.

The mower shall be compatible with the Brand and model of the loader provided. In order to maintain the loader's original manufacturer's warranty the boom mower must be approved for use with the loader, by the manufacturer of the loader. Proof of the loader manufacturer's approval shall be provided upon request.

- a. **INSTALLATION:** the mower shall be supplier on a loader equipped with a toolcarrier linkage and components shall be installed on the loader. The mower controls, lexan guard over the right door glass, lexan windshield, wind boom supports, safety equipment and all other required equipment shall be installed on the toolcarrier in a sanitary manner and provide for ease of maintenance of the unit. Hydraulic lines shall be secured with suitable clamps; plastic tie wraps are not acceptable. The mower controls shall be installed in an ergonomic location that are easy to access by the operator while not adversely restricting other controls required to operate the unit during transport, operating the loader without the mower attached or during the mowing operation. All wires going to the controls shall be routed so as to minimize any tripping hazards or become entangled in other equipment in the cab.

- b. **DIMENSIONS:** The following dimensions are required to insure proper

configuration for use, storage and transportation of the complete unit. These requirements shall be applicable with 17.5-R25 tires installed on the tool carrier.

- i. Maximum boom height: 19', 6" (min.)
- ii. Reach, right side (center of toolcarrier to end of mower): 17' (min.)
- iii. Minimum right side clearance (between vehicle and mower head): 12" (max.)
- iv. Reach below grade with mower head horizontal: 6' (min.)
- v. From a plane perpendicular to the vehicle centerline (on the right) the mower boom shall be capable of pivoting aft 25 degrees and 115 degrees forward.

c. MOWER STORAGE: The mower shall be capable of being stowed within the overall width of the toolcarrier frame. The stowed position of the mower shall allow the toolcarrier to safely travel at a recommended safe speed. The stowed position shall also allow for transportation of the unit on a trailer without exceeding legal height or width limits. Stowage of the mower shall be accomplished under hydraulic power.

d. BOOM ASSEMBLY: The boom structure shall incorporate a quick coupler (ACS compatible) with the coupler supplied on the toolcarrier in order to attach the mower to the toolcarrier. The boom shall be manufactured from T-1 steel per ASTM 514 with a minimum yield strength of 100,000 psi (or steel equivalent yield strength). The boom shall consist of a minimum of two sections and shall be hydraulically operated. The boom pins shall be manufactured from the same material and of the same hardness as toolcarrier pins or equivalent. Boom pins shall be machine ground and installed in steel bushings with grease fittings or ground and nitride pins press fit into greaseless composite Teflon impregnated bushings. Vertical swivel pin shall be ground, nitride and press fit into greaseless composite Teflon impregnated bushings or ground and installed in steel bushings with grease fittings. The boom shall be equipped with relief valves in each implement circuit. All hydraulic cylinders shall be mounted above the boom arms to prevent damage from roadside obstacles.

e. QUICK ATTACH FOURTH AXIS HYDRAULIC ROTATOR: A fourth axis rotator (reference: Helac model # TBB06 or comparable) shall be supplied to allow the quick attachment of the flail cutting head. Quick Attach rotator shall increase 3rd axis cutting head rotation to 165 degrees, and provide an additional 130 degrees of orthogonal 4th axis rotation. Both 3rd and 4th axis head rotations shall be controlled hydraulically and incorporated into the standard electronic single lever control handle. Fourth axis hydraulic rotator must allow cutter head to cut vertically within 1" of right side tire track, and be able to maintain this vertical cutting position from ground level to full boom height. A fourth axis hydraulic rotator shall be able to maintain a cutting path perpendicular to centerline of the vehicle even when boom position swings forward or aft throughout boom swing arc. To minimize thrown object towards the operator, cutting head shall not point towards cab in its most extreme position closer than 35 degrees minimum from vehicle centerline.

f. FLAIL MOWING HEAD: The cutting head shall be fabricated from T-1 steel (or

steel of equivalent yield strength) with minimum yield strength of 100,000 psi, hydraulically driven and be capable of cutting 6" diameter brush and tree limbs. The cutting head shall pivot on the boom to allow for mowing from the vertical to horizontal position. A minimum cutting width of 48" shall be provided. The cutting head cowling shall not be less than 1/4" thick; the end plates shall be a minimum of 3/8" thick. The cutting head shall be equipped with hammerhead type knives with cutting edges.

The flail mower shall conform to the requirements as established in SAE Standard J1001; documentation of meeting the standard must be verified prior to award of the bid. The mower structure (housing, deflectors, and attachments) shall be designed, fabricated and assembled in such a manner that, under normal operating conditions or the destructive conditions encountered during sudden impacts of rocks or metallic objects, none of the component parts of the mower shall fracture, break, loosen or deform in any manner that will make the mower hazardous to the operator or bystander. Permanent safety signs with the words "DANGER – DISCHARGE OPENING", easily legible from a standing position, shall be placed at or near each discharge opening.

The rotor drive mechanism shall provide complete shielding of all driven members to prevent inadvertent contact during normal operating procedures. Deflectors or attachments used as deflectors shall limit the path of the ejected material to a downward direction. The rear deflector shall incorporate a hard rubber deflector flap that is firmly attached to the rear mower housing and span the entire width of the cutting head. The cutting head shall be equipped with replaceable, full-length skid shoes. Permanent instructions shall be placed on the mower, near the opening, stating that the mower shall not be used with the deflector removed.

- g. HYDRAULICS: The toolcarrier total hydraulic system shall be designed to provide a combined minimum required flow of 50 gpm at 3,000 psi. The minimum required flow shall be provided at a ground speed of 0.10 mph, continuously without the use of brakes, intermittent use of brakes **shall not** be permitted.

There shall be no hydraulic lines installed internally on the boom. All lines shall be thick walled steel hydraulic tubing where practical. Hydraulic hoses may be used where flexibility is required. All pressure hoses shall be rated at a minimum of 3,000 psi with corresponding fittings of the same types as those used on the tool carrier.

- h. HYDRAULIC OIL COOLER: An additional hydraulic oil cooler shall be added or additional hydraulic oil cooling capacity shall be added to the loader. The oil cooler shall be an air to oil design. The hydraulic cooling system must be capable of maintaining a safe oil operating temperature in accordance with the loader manufacturer's recommended oil temperature in an ambient temperature of 110 degrees with the mower running continuously under load. The loader manufacturer shall provide documentation of the heat load of the boom mower and the loader's capacity to maintain the loader and the boom mower's hydraulic

oil temperature simultaneously.

- i. Hydraulic Cylinders: Cylinder shall be double acting, welded industrial type. Cylinder ends shall have greaseable, replaceable hardened bushings. Horizontal boom cylinders shall be equipped with an auto-cushioning device.

- j. CONTROLS: The controls for the movement of the cutting head and boom assembly shall utilize joystick type actuation. The joystick shall electronically actuate mower hydraulic control valves. The joystick controls shall be installed in the cab within easy reach of the operator, near the toolcarrier's existing hydraulic controls. The joystick controls shall be installed in accordance with approved manufacturer's procedures. The controls shall be labeled with permanently engraved metal labels and shall be attached with rivets or screws.

- k. GUARD: A lexan guard with a minimum thickness of 3/8" shall be provided and installed so as to protect the front and right side door windows from flying objects thrown by the cutting head. The installation shall allow for easy cleaning of both sides of the lexan guard and window.

Option No. 1 Price \$ NA (NON-AWARD ITEM)

2. BOOM MOWER HYDRAULIC, COOLING & MOWER CONTROL: Upgraded hydraulic and cooling systems and controls shall be installed to operate a hydraulic driven boom mower. Documentation from both the loader and mower manufactures shall be provided prior to award of the bid. The upgraded systems and controls shall be the manufacture's current production systems with a minimum of (1) one year previous production. The vendor shall guarantee that a stock of component parts shall be available at a location convenient to the user; all items shall be of a standard production model.

The mower shall be compatible with the Brand and model of the loader provided. In order to maintain the loader's original manufacturer's warranty the boom mower must be approved for use with the loader, by the manufacturer of the loader. Proof of the loader manufacturer's approval shall be provided upon request.

- a. HYDRAULICS: The tool carrier total hydraulic system shall be designed to provide a combined minimum required flow of 50 gpm at 3,000 psi. The minimum required flow shall be provided at a ground speed of 0.10 mph, continuously without the use of brakes, intermittent use of brakes **shall not** be permitted.

There shall be no hydraulic lines installed internally on the boom. All lines shall be thick walled steel hydraulic tubing where practical. Hydraulic hoses may be used where flexibility is required. All pressure hoses shall be rated at a minimum of 3,000 psi with corresponding fittings of the same types as those used on the tool carrier.

- b. HYDRAULIC OIL COOLER: An additional hydraulic oil cooler shall be added or

additional hydraulic oil cooling capacity shall be added to the loader. The oil cooler shall be an air to oil design. The hydraulic cooling system must be capable of maintaining a safe oil operating temperature in accordance with the loader manufacturer's recommended oil temperature in an ambient temperature of 110 degrees with the mower running continuously under load. The loader manufacturer shall provide documentation of the heat load of the boom mower and the loader's capacity to maintain the loader and the boom mower's hydraulic oil temperature simultaneously.

- c. CONTROLS: The controls for the movement of the cutting head and boom assembly shall utilize joystick type actuation. The joystick shall electronically actuate mower hydraulic control valves. The joystick controls shall be installed in the cab within easy reach of the operator, near the existing hydraulic controls. The joystick controls shall be installed in accordance with approved manufacturer's procedures. The controls shall be labeled with permanently engraved metal labels and shall be attached with rivets or screws. The loader controls may be used to operate the mower.
- d. GUARD: A lexan guard with a minimum thickness of 3/8" shall be provided and installed so as to protect the front and right side door windows from flying objects thrown by the cutting head. The installation shall allow for easy cleaning of both sides of the lexan guard and window.

Option No. 2 Price \$ NA (NON-AWARD ITEM)

3. ROTARY CUTTING HEAD: A rotary type mower shall be furnished in lieu of the flail mower. The rotary mower shall conform to the same operational and structural requirements as the flail mower unless otherwise specified. The rotary mower shall provide a minimum cut width of 48" and utilize a front, folding type, hinged door to expose the cutting blades in severe mowing conditions. The folding door shall be hydraulically actuated or open automatically. The rotary mower shall conform to the requirements as established in SAE J232, documentation of meeting the standard must be verified prior to award of the bid. The rotary mower shall be equipped with a minimum of two (2) cutting blades constructed, from AISI 5160 or AISI 5160H, hardness of 38-42 RC per ASTM A370. It must pass Blade ductility Test per ASAE S483. It shall pass Charpy Impact testing per ASTM A370 minimum of 15 ft-lbs. at 70F. Decarburization depth shall not exceed 2% of material thickness per side. Blade holes shall be chamfered 0.075 +/- .015" X 45 deg or radius at 0.075 +/- .015" on both sides. Blade hole area shall be shot peened 150% on both sides after heat treatment and after hole chamfering. Area is defined as minimum of 1.5 X hole diameter from hole centerline. Shot peen per AMS-S-13165 Section 3, Almen: 16-20A, Shot size: CCW28. Blades shall have 360 degree rotation capability each to protect against impact damage. One (1) additional set of cutting blades shall be furnished with the mower. No quick attach fourth axis hydraulic rotator shall be provided with the rotary cutting head.

Option No. 3 Price \$ NA (NON-AWARD ITEM)

4. BOOM MOWER MODIFICATION KIT: A hydraulic driven boom mower modification kit shall be installed in the manufacture's current production model with a minimum of (1) one-year previous production. The modification kit shall be compatible with the mower manufacturer's heaviest duty model available. The vendor shall guarantee that a stock of component parts shall be available at a location convenient to the user; all items shall be of a production model.

The mower shall be compatible with the Brand and model of the loader provided. In order to maintain the loader's original manufacturer's warranty the boom mower must be approved for use with the loader, by the manufacturer of the loader. Proof of the loader manufacturer's approval shall be provided upon request.

- l. INSTALLATION: the mower modification kit shall be supplied on a loader equipped with a toolcarrier linkage, 550/65 R25 tires and required components to install and operate the mower. The mower controls, lexan guard over the right door glass, lexan windshield, boom supports, safety equipment and all other required equipment shall be installed on the toolcarrier in a sanitary manner and provide for ease of maintenance of the unit. Hydraulic lines shall be secured with suitable clamps; *plastic tie wraps are not acceptable*. The mower controls shall be installed in an ergonomic location that are easy to access by the operator while not adversely restricting the standard loader controls required to operate the unit during transport, operating the loader without the mower attached or during the mowing operation. All wires going to the controls shall be routed so as to minimize any tripping hazards or become entangled in other equipment in the cab.

- m. DIMENSIONS: The following dimensions are required to insure proper vehicle configuration for use, storage and transportation of the complete unit. These dimensional requirements shall be applicable with 550/65 R25 tires installed on the tool carrier.

- vi. Maximum boom height: 19', 6" (min.)
- vii. Reach, right side (center of toolcarrier to end of mower): 17' (min.)
- viii. Minimum right side clearance (between vehicle and mower head): 12" (max.)
- ix. Reach below grade with mower head horizontal: 6' (min.)
- x. From a plane perpendicular to the vehicle centerline (on the right) the mower boom shall be capable of pivoting aft 25 degrees and 115 degrees forward.

- n. HYDRAULICS: The toolcarrier total hydraulic system shall be designed to provide a combined minimum required flow of 50 gpm at 3,000 psi. The minimum required flow shall be provided at a ground speed of 0.10 mph, continuously without the use of brakes, intermittent use of brakes shall not be permitted.

All pressure hoses shall be rated at a minimum of 3,000 psi with corresponding

fittings of the same types as those used on the tool carrier.

- o. HYDRAULIC OIL COOLER: An additional hydraulic oil cooler shall be added. The oil cooler shall be an air to oil design. The hydraulic cooling system must be capable of maintaining a safe oil operating temperature in accordance with the loader manufacturer's recommended oil temperature in an ambient temperature of 110 degrees with the mower running continuously under load.
- p. CONTROLS: The controls for the movement of the cutting head and boom assembly shall utilize joystick type actuation. The joystick shall electronically actuate mower hydraulic control valves. The joystick controls shall be designed to mount ergonomically in the toolcarrier's cab within easy reach of the operator, near the toolcarrier's existing hydraulic controls. The joystick controls shall be installed in accordance with approved manufacturer's procedures. The controls shall be labeled with permanently engraved plastic or metallic labels and shall be attached with rivets, screws, or adhesive.
- q. QUICK COUPLER: The loader shall be equipped with an American Quick Coupler Pro Series 2000, size 30, American Coupler Systems, Inc. The quick coupler shall be installed to allow interchangeability of equipment and implements. The coupling system shall allow individual implements to interchange with other brand loaders within the same size group. The coupler system shall be self-aligning and fully automatic. A quick coupling attachment shall be installed on all implements being supplied with each loader equipped with a quick coupler.
- r. GUARD: A lexan guard with a minimum thickness of 3/8" shall be provided and installed so as to protect the windshield and right side door windows from flying objects thrown by the cutting head. The installation shall allow for easy cleaning of both sides of the lexan guard and window.

Option No. 4 Price \$ NA (NON-AWARD ITEM)

- 5. TOOLCARRIER LINKAGE: The Toolcarrier linkage shall incorporate a parallel lift linkage to keep the load level through the boom's arc. The dump height, reach, tipping loads, break out force, operating loads and all other capacities shall not be lowered.

Option No. 5 Price \$ 3000.00

- 6. ENGINE PREHEATER: An electrical resistance heater 1500-Watts. The preheater shall be 120-Volt compatible with a minimum 15 Amp. rated flexible grounding type electrical power supply cord. The power supply cord shall be connected to a flanged, three prong, 15A-120V male receptacle, externally mounted to an engine side panel for "plug-in" ease. The external receptacle shall be recessed to provide a smooth, non-protruding, and safe exterior environment when not in use. The receptacle shall be weatherproof with a lift cover and boot.

Option No. 6 Price \$ 500.00

7. MULTIPURPOSE BUCKET: A multipurpose (4-in-1) bucket shall be installed in lieu of the specified general-purpose bucket. The bucket shall be furnished with pre-drilled blade holes in accordance with the attached State of California Drawing, H1-C003-01. The multipurpose bucket shall be fully hydraulic with a minimum SAE J742 rated struck capacity of 1.50 cubic yards and shall not exceed 8.5 feet in width. Loaders equipped with a quick coupler shall be furnished with a coupler mounted bucket. The cutting edge will be supplied by Caltrans.

Option No. 7 Price \$ 10,600-

8. QUICK COUPLER: The loader shall be equipped with an American Quick Coupler Pro Series 2000, size 30, American Coupler Systems, Inc. The quick coupler shall be installed to allow interchangeability of equipment and implements. The coupling system shall allow individual implements to interchange with other brand loaders within the same size group. The coupler system shall be self-aligning and fully automatic. A quick coupling attachment shall be installed on all implements being supplied with each loader equipped with a quick coupler.

Option No. 8 Price \$ 4500.00

9. SNOWPLOW: A front mounted, reversible, snow type plow shall be provided. The plow shall be fully hydraulic with a minimum 11 ft. cut width. The plow shall be complete with moldboard, push frame, mounting frame, cutting edge, and hydraulic lines, fittings and cylinders. The plow shall be furnished with blade holes in accordance with the attached State of California Drawing, D1-B001-01. The moldboard dimensions shall not be less than 11 ft. x 36 in. x .25 in. One (1) additional set of blades that make up the cutting edge shall be supplied. Loaders equipped with a snowplow shall be supplied with a quick coupler shall be furnished with a coupler mounted bucket.

Option No. 9 Price \$ 10,600.00

10. TIRES; ROCK GRIP: The loader shall be equipped with Michelin XH, L-3 type, radial, rock grip tires in lieu of the specified tires.

Option No. 10 Price \$ INCL

11. LOADING FORKS - HYDRAULIC: Fully hydraulic width adjustable loading forks shall be supplied with the loader. The loading forks shall be installed to provide fork lift type

operation from the front of the loader, being mounted to the loader quick coupling system. The forks shall be adjustable providing a minimum spread of 18 inches or less and a maximum spread of 60 inches or more. The forks shall adjust hydraulically from within the operator's compartment and have a minimum lift capacity of 7000 lb.

Option No. 11 Price \$ 9250.00

12. BOOM: An extendable "jib" boom shall be supplied. The boom shall be installed to provide lifting capability in the front of the loader being mounted to the loader quick coupling system. The boom shall provide a minimum 10 feet extended length with a lifting capacity that will match the loader capabilities.

Option No. 12 Price \$ 4250.00

13. BROOM: Two-way, reversible hydraulic powered broom shall include: dual motors, hydraulic angling, sprinkler system, quick attach system, brush shroud and storage stand. The broom shall be a minimum of 32 inches in diameter and 96 inches in length. The broom shall hydraulically swivel a minimum of 30 degrees to either side of the longitudinal centerline of the loader. All of the broom's functions shall be operated with the loader manufactures' bucket controls, from inside the cab. The water spray system shall include a minimum 150-gallon dust control water tank, mounted to the frame of the broom.

Option No. 13 Price \$ 16,000.00

14. AUTO-LUBE: An automatic lubrication system shall be furnished and installed to provide lubrication all lubrication points. The automatic lubrication system shall include a grease pump, a reservoir, calibrated injectors, a distribution system, and a variable time cycle controller.

The auto lube system (Ref.: Lincoln Auto-lube, Midwest lube, Int) shall be hydraulically or pneumatically actuated and have a solid state controller capable of lubricating the loader at specified intervals or by manual override from inside the cab. The auto lube system shall utilize one centralized distribution point, be a low-pressure system and be compatible with water-resistant multiple purpose grease, as specified in Section 26 (Lubrication). The auto lube system shall be installed in accordance with the manufacturer's recommendations and be fully functional

All lubrication injectors shall be properly calibrated for the parts being lubricated. The auto lube system's pump shall be mounted in such a manner so as to not interfere with of the operation of the loader. The lubrication reservoir shall be visible to permit a visual check of the lubrication level. All lubrication lines shall be secured to the vehicle frame or suitable structure. Loose lines that can cause tripping hazards or be subject to

entanglement are not permitted. All lubrication delivery lines shall be reinforced, abrasion resistant, flexible lines.

Option No. 14 Price \$ 5350.00

15. TIRES; SNOW TREAD: The loader shall be equipped with non-directional all season tires designed for enhanced traction in snow and ice, (Ref. Michelin X Snowplus 17.5 R 25).

Option No. 15 Price \$ 882.00

16. HEATED MIRRORS: Heated mirrors shall be supplied and installed. Right and left West Coast style outside rearview mirrors or factory standard, minimum 6" x 16"; electrically heated, (Ref. ReTrac Mirror Model 1160H). The mirror mounting brackets shall be the retractable type, zinc plated or stainless steel and fully adjustable (Ref. ReTrac Mirror Model 1582 brackets). Chrome finished brackets are not acceptable.

Option No. 16 Price \$ 560.00

17. LIGHT MATERIAL BUCKET: A 4.50 cubic yard light material bucket shall be provided in addition to the specified general-purpose bucket. The light material bucket shall be furnished with blade holes in accordance with the attached State of California Drawing, H1-C003-01. The light material bucket shall be fully hydraulic with a minimum SAE J742 rated struck capacity of 4.50 cubic yards and shall not exceed 8.5 feet in width.

Option No. 17 Price \$ 10,000.00

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
DIVISION OF EQUIPMENT

| ITEM NO | UNIT | CAB | TRANS | ENG | CAP | C.A. | F.A. | R.A. |
|---------|------|------|-------|-------|--------|------|------|------|
| 41846 | U | ENC. | T.C. | D-110 | 1.5 YD | | | |

SPECIFICATION NUMBER: 41846-028-071SPECIFICATION FOR: A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL DRIVE LOADERPURCHASE ESTIMATE NUMBER: 32-12-5312**LOADER QUESTIONNAIRE**

Make JOHN DEERE
 Model 444K
 Year 2008

1. **WEIGHT:**

SAE operating weight as specified 24,500 lb.
 Front axle weight 9800 lb.
 Rear axle weight 14700 lb.
 Standard Counter Weight: INCL lb.
 Optional Counter Weight: 300 lb.

Note: Weight of all counterweights shall be provided

2. **DIMENSIONS:**

Indicate the following vehicle dimensions with bucket resting on the ground and level:

a. Overall vehicle length 22' 2" ft.
 b. Overall vehicle height 10' 5" ft.
 c. Overall vehicle width (without bucket) 92.4" ft.
 d. Vehicle height to top of cab 10' 5" ft.
 e. Tread width 74.8" ft.
 f. Wheelbase 9' 0" ft.
 g. Ground clearance (with lift arms raised) 15.6" in.

Make JOHN DEERE
Model E 4045H
Gross HP _____ @ _____ RPM
SAE net HP 128 @ 2000 RPM
Maximum torque 380 lb.-ft @ 1400 RPM
Is the engine turbo charged? (Yes/No) YES; No. cylinders 4
Engine displacement 276 cu in.
Is Engine Tier II compliant? (Yes/No) TIER III CERTIFIED
What type of cold starting aid installed? ETHER

4. TRANSMISSION:

Is the transmission equipped with power shift? (Yes/No) YES
Type of drive TORQUE CONVERTER
Torque multiplication ratio _____
Number of forward speeds 4
Number of reverse speeds 3
Maximum forward travel speed 23.4 22.9 mph

5. AXLES AND DRIVES: Indicate the following gross axle weight ratings:

Front 23350 lb.
Rear 23350 lb.
Is Front Axle Limited slip? (Yes/No) YES
Is Rear Axle Limited slip? (Yes/No) YES

6. STEERING:

Is the loader SAE J1511 compliant? (Yes/No) YES
Describe the emergency steering system 24V AUTO ELEC.

7. BRAKES:

Are the service brakes self adjusting? (Yes/No) YES
Are the service brakes sealed? (Yes/No) YES
Is the loader equipped with an emergency (auxiliary) braking system? (Yes/No)
Describe the emergency braking system ACCUMULATOR AND
AUTO APPLIED PARKING BRAKE

8. HYDRAULICS:

Number of valves 4
Number of valves with positive detent 2
Flow (gpm) 37
Pressure (psi) 3600
Filter Capacity (microns) 10

9. BUCKET ASSEMBLY:

Make ACS
Model GP
SAE struck capacity 1.5 cu yd.
SAE rated (nominally heaped) capacity 1.75 cu yd.
Bucket width 102" in.

Indicate the following SAE dimensional and operational capabilities of the loader equipped with the specified 17.5-25, 12 PR, L-2 type tires:

- a. Dump height (clearance) @ maximum lift & 45° dump angle 105 in.
- b. Reach - fully raised @ 45° dump angle 40" in.
- c. Full turn tipping load 18263 lb.
- d. Straight tipping load 20,554 lb.
- e. Breakout force 20,100 lb.
- f. SAE J818 operating load 9131.5 lb.

10. MISCELLANEOUS:

Is the loader equipped with the following miscellaneous components? (Yes/No)

- a. Vandal protection package YES
- b. Clevis type rear drawbar YES
- c. Right and left exterior rearview mirrors YES
- d. Front and rear wheel fenders YES
- e. Tie-down capability at each corner YES
- Make JOHN DEERE
- Model _____

**STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
DIVISION OF EQUIPMENT**

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|---------|------|------|-------|-------|--------|------|------|------|
| 41846 | U | ENC. | T.C. | D-110 | 1.5 YD | | | |

SPECIFICATION NUMBER: 41846-028-071

SPECIFICATION FOR: A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL
DRIVE LOADER

PURCHASE ESTIMATE NUMBER: 32-12-5312

LOADER OPTIONS QUESTIONNAIRE

1. **BOOM ASSEMBLY**

Make/model N/A

Is the boom assembly articulate in nature? (Yes/No) _____

Is the boom assembly equipped with relief valves in each implement circuit?

(Yes/No) _____

Is the boom assembly equipped with a dual position hydraulic safety break away?

(Yes/No) _____

Is the boom assembly manufactured with T-1 steel (100,000psi Yield)?

(Yes/No) _____

Is the boom assembly internally reinforced? (Yes/No) _____

List the following dimensional and operational capabilities:

a. Horizontal reach _____ feet

b. Vertical reach _____ feet

Above (grade level) _____ feet

Below (grade level) _____ feet

c. Horizontal swing arc: _____ ° total

° front

° rear

d. Vertical swing arc: _____ ° total

° above (grade level)

° below (grade level)

Is the boom equipped with a safety device to prevent the mower from starting when in the

transport position? (Yes/No) _____

Can the boom be stored for transport by one person? (Yes/No) _____

2. FLAIL MOWING HEADMake/model N/A

Mower cut width _____ in.

Is the mower equipped with replaceable, full length skid shoes? _____

Mower cut height range _____ in (min); _____ in (max)

Gage roller diameter _____ inches

Is the mower equipped with hammerhead cutting knives? (Yes/No) _____

Are the cutting knives capable of cutting brush/tree type material up to 6.0 inches thick?
(Yes/No) _____

Thickness of mower housing _____ in.

Thickness of mower end plates _____ in.

Does the mower conform to SAE J1001? (Yes/No) _____

Is the cutting head manufactured from T-1 steel (100,000psi Yield)? (Y/N) _____

Is the mower equipped with a full length/width hard rubber rear deflector flap? (Yes/No) _____

3. HYDRAULICS

Are all hydraulic cylinders located on the top of the boom? (Yes/No) _____

Are all hydraulic lines external to the boom? (Yes/No) _____

Are all fittings compatible with the IT14G? (Yes/No) _____

Are all hydraulic hoses and fittings rated for 2,000 psi? (Yes/No) _____

Does the mower require an auxiliary hydraulic fluid tank? (Yes/No) _____

Hydraulic rated flow: _____ GPM, Pressure: _____

4. CONTROLS

Are the controls which influence the movement of the mower and boom assemblies permanently labeled to identify their function? (Yes/No) _____

Are the controls to tilt the mower head equipped with a float position?
(Yes/No) _____

Are the controls of a joy stick type (Yes/No) _____

5. ROTARY CUTTING HEADMake/model N/A

Mower cut width _____ in.

Is the mower equipped with replaceable, full length skid shoes? _____

Mower cut height range _____ in (min); _____ in (max)

Number of cutting blades _____

What material are the blades _____

6. QUICK ATTACH FOURTH AXIS HYDRAULIC ROTATOR:Make/Model: N/ADegrees of 4th axis rotation: _____ degrees.

Is rotation control incorporated in joy stick control? _____

7. Front Loading ForksMake ACSModel 30Usable fork length 48 in.Usable fork width 60 in.

Working load capacity @ 50% of fork length _____ lb.

Are the forks adjustable? (Yes/No) YESFork adjusting width: Minimum 10 in.Maximum 60 in.Quick coupler attached (Yes/No) YES8. Multipurpose BucketMake ACSModel MULTI-PURPOSEIs the bucket fully hydraulic? (Yes/No) YESSAE struck capacity 1.5 cu yd.SAE rated (nominally heaped) capacity 1.75 cu yd.Bucket width 102 in.Quick coupler attached (Yes/No) BOTH9. Quick CouplerMake ACSModel 30

Is the coupling attachment installed on each implement being supplied with the loader?

(Yes/No) YES (IF REQUIRED)10. Snow PlowMake HENKEModel H111Is the plow reversible? (Yes/No) YES

Is the plow fully hydraulic? (Yes/No) YES
Moldboard dimensions 41" x 11'
Quick coupler attached (Yes/No) YES

11. Loading Forks - Hydraulic

Make ACS
Model 30 60x48
Usable fork length 48 in.
Usable fork width 60 in.
Working load capacity @ 50% of fork length 7500 lb.
Are the forks hydraulically adjustable? (Yes/No) YES
Fork adjusting width: Minimum 17 in.
Maximum 60 in.
Quick coupler attached (Yes/No) YES

12. Tire Chains

Make _____; Model _____

13. Broom

Make SWEEPSTER
Model LA
Broom diameter 32" in.
Broom length 96" in.
Degrees of swivel 30° deg.
Is the broom equipped with a water spray system. (Yes/No) YES
Spray system tank capacity 85 gal.
Quick coupler attached (Yes/No) yes

14. RIDE CONTROL: (Yes/No) YES

THE MANUFACTURER'S LITERATURE/SPECIFICATIONS FOR THE EQUIPMENT AND ANY ACCESSORIES BEING BID SHALL ACCOMPANY EACH BID.

LIST ANY ADDITIONAL INFORMATION ALTERNATIVES, OR EXCEPTIONS TO THE SPECIFICATIONS BELOW OR ON AN ADDITIONAL PAGE AND ATTACH IT TO THIS QUESTIONNAIRE.

Name PAPÉ MACHINERY, INC.
2850 EL CENTRO ROAD
Street Address SACRAMENTO, CA 95833-9703

City, State, Zip

Telephone Number 927-7181

By Donald Conner

Title Territory Manager

Date 3/18/08

CALTRANS IN-SHOP WARRANTY AGREEMENT

Name of Supplier/Manufacturer PAPE MACHINERY / DEERE & Co.
Warranty Representative (print or type) MIKE MILLER
Street Address 2850 EL CENTRO
City, State, Zip Code SAC CA 95833
Telephone Number 916 922 7181
Solicitation No. 56704 Due Date 3/18/08
Item (Quantity/Brand/Model) 13 John Deere 444K

When equipment is purchased for Caltrans, a section of the specifications requires the supplier/manufacturer to enter into an In-Shop Warranty Agreement.

The terms of the In-Shop Warranty Agreement for this equipment are as follows:

1. Labor rate charged by Caltrans will be \$100.00 per hour.
2. Warranty claims will be processed on a Caltrans Work Order unless the supplier/manufacturer furnishes standard warranty forms.
3. Suppliers'/manufacturers' standard flat rate time schedules shall be used as a guide for In-Shop Warranty repair time. If a supplier's/manufacturer's flat rate time schedule is not available, Caltrans will use the time that is recorded on the Caltrans Work Order.
4. Replacement parts will be available within 5 working days from the date of receipt by supplier/manufacturer of a Purchase Order, whether the order is made by telephone or in writing.
5. Replaced parts will be held 60 days for inspection by the supplier/manufacturer.
6. Original Equipment Manufacturers' parts will be used as replacement parts; or, if OEM parts are not available, after-market parts of equal or better quality will be utilized.
7. Copies of invoices for all parts will be provided to the supplier/manufacturer.

Caltrans will contact the supplier/manufacturer for authorization to perform In-Shop Warranty repairs as stated in this agreement. Only under extreme emergency conditions will In-Shop Warranty be performed without prior authorization. If Caltrans opts not to perform the warranty work, the supplier shall pick up the unit within 48 hours of notification, written or verbal.

In-Shop Warranty Agreement shall remain in effect until all conditions of warranty in the State of California specifications and in the original manufacturer's warranty expire.

Signature, Caltrans Warranty Coordinator _____

Date

Signature, Supplier/Manufacturer _____

Date

EXTENDED WARRANTY AGREEMENT FORM

(Sample)

Statewide warranty coordinator certification

PAPE MACHINERY, INC.

Name:

Phone Number:

916 922 7181

Address:

2850 EL CENTRO ROAD
SACRAMENTO, CA 95833 9703

Warranty Service Locations: Name, Address, Phone Number

1. PAPE MACHINERY
5065 CATERPILLAR RD
REDDING, CA 96003 530-241-4555
2. PAPE MACHINERY
8855 S. EL DORADO ST
FRENCH CAMP, CA 95231 209-983-8122
3. PAPE MACHINERY
2850 EL CENTRO RD
SAC CA 95833 916 922 7181
4. R.D.O.
13625 DANIELSON ST
POWAY CA 92064 858-679-9200
5. COAST LINE EQ.
17435 FOOT HILL BLVD
SYLMAR, CA 91342 818-890-3353

The unit(s), including but not limited to the chassis, engine, drive train, electrical system and all modifications made to the unit prior to delivery, etc., shall be covered (parts and labor) under a factory authorized extended warranty for three (3) years or 2000 engine hours, whichever occurs first, following the date the Department of Transportation (Caltrans) puts the unit into service. This warranty does not cover standard wear items, which fail due to normal wear. Caltrans will notify the supplier by mail of the in-service date and keep a record of the in-service date.

If the supplier is not the manufacturer or manufacturer's authorized representative, then a performance bond for in the amount of 70% of this order shall be supplied to cover late delivery charges detailed below. A statement agreeing to the warranty conditions stated herein shall be signed by the supplier and submitted with proof of bondability with the bid.

The performance bond shall be submitted prior to Purchase Order award. The balance of any unused portion of the bond will be relinquished at the end of the 3 year in service period.

Late delivery charges shall be assigned as shown for OEM parts and warranty

repair services that do not meet the following performance requirements: January 14, 2008

1. All OEM parts not available within three (3) working days from the date of order.
 - The price shall be reduced 20% for every day after the three (3) working days have passed from the initial parts order. This does not apply to those parts listed as for Caltrans only.
 - Additionally, if parts are not available by the sixth (6) working day, a loaner unit, of equal or greater capacity, shall be made available for use by Caltrans until the parts have been delivered. Supplying a replacement unit will stop the 20% parts discount from the day the unit is made available. This does not apply to those parts listed as for Caltrans only.
2. Warranty repair service not performed within 5 working days of entering the shop.
 - If repairs have not been made by the sixth (6) working day, a loaner unit, of equal or greater capacity, shall be made available for use by Caltrans until the parts have been delivered.
3. Warranty replacement of engine, transmission or complete axle assemblies not performed within 15 working days of entering the shop.
 - If repairs have not been made by the sixteenth (16) working day, a loaner unit, of equal or greater capacity, shall be made available for use by Caltrans until the parts have been delivered.

NOTE: All parts expediting fees required to maintain these performance levels shall be covered by the extended warranty and not charged to Caltrans.

NOTE: For those suppliers providing a bond in lieu of a factory authorized warranty, the bond shall be charged for those penalties incurred as detailed above.

The supplier may use a traveling mechanic to perform the warranty work. The supplier will be responsible for all associated costs (travel time, overtime, per diem, etc.). The use and availability of a traveling mechanic does not relieve the supplier from providing a list of five (5) factory authorized warranty service locations throughout California.

At the request of the Caltrans shop superintendent, a joint warranty inspection of the equipment shall be conducted within 30 days prior to the expiration of the warranty period with the vendor or his authorized designee. The purpose shall be to resolve any remaining warranty issues prior to expiration.

An In-Shop Warranty agreement (see attached), signed by the supplier or manufacturer, shall be submitted prior to Purchase Order award. The standard In-Shop Warranty agreement shall be extended from one (1) year to three (3) years per this agreement.

Caltrans, at its option, may perform warranty work under the terms of the In-Shop Warranty agreement. If Caltrans opts not to perform the warranty work, the supplier shall pick up the unit within 48-hours of notification, written or verbal. The unit will be at a Caltrans facility. The unit shall be repaired and returned within 10 working days to the Caltrans facility where the unit was originally picked up. Upon prior approval with Caltrans and in compliance with all Caltrans Policies and

Procedures, warranty work may be performed at a Caltrans facility.

Any supplier or manufacturer non-compliant with the warranty provisions set forth herein may be subject by the Procurement Division, Department of General Services, State of California to be removed from any future bidding.

Any non-integral accessory / optional equipment not cataloged as a dealer option shall be warranted for a period of one year commencing from the date Caltrans puts the unit into service. (i.e. rotary broom).

**STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
DIVISION OF EQUIPMENT**

| ITEM NO | UNIT | CAB | TRANS | ENG | CAP | C.A. | F.A. | R.A. |
|---------|------|------|-------|-------|--------|------|------|------|
| 41846 | U | ENC. | T.C. | D-110 | 1.5 YD | | | |

SPECIFICATION NUMBER: 41846-028-071

SPECIFICATION FOR: A FOUR WHEEL, ARTICULATED STEER, FOUR-WHEEL
DRIVE LOADER

PURCHASE ESTIMATE NUMBER: 32-12-5312

| DURING BIDDING AND PRIOR TO PURCHASE ORDER AWARD CONTACT INFORMATION | | |
|---|--|---|
| Purpose | Name | Telephone No. |
| Any technical or administrative questions concerning this bid. | BUYER: As listed on the Invitation For Bid | As listed on the Invitation For Bid Fax 916-375-4613 |
| | | |
| AFTER PURCHASE ORDER AWARD CONTACT INFORMATION | | |
| Administrative questions, first inspection request, payment ... | Bob Ceccato Shipping and Receiving Division of Equipment | 916-227-9636 |
| All technical issues, equivalent parts, print discrepancies, Spec interpretation... | Stanley Jacobs | 916-227-99710 |
| Follow up inspections, scheduling after inspection request, copy of inspection report ... | Ross Snyder Quality Assurance Division of Equipment | 916-227-9709 |
| Establish training plan. | ED Nunes | 916-227-9695 |
| Warranty questions. | Tony Marshall | 916-227-9724 |